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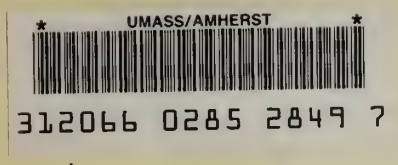

UNIVERSITY OF LOWELL

FACTBOOK 1986

NINTH EDITION

GOVERNMENT DOCUMENTS
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The University of Lowell is an Affirmative Action/Equal Opportunity University and does not discriminate on the basis of sex or handicap status in its educational programs, activities, or employment policies as required by Title IX of the Education Amendments of 1972 and Section 504 of the Rehabilitation Act of 1973, as amended.

THE UNIVERSITY OF LOWELL FACTBOOK

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GENERAL INFORMATION

FORWARD

The University of Lowell Factbook is a summary of significant statistics gathered from various sources throughout the University. We wish to extend sincere thanks and appreciation for the excellent cooperation and assistance received from these many sources.

The purpose of the Factbook is to produce a single source publication and reference document touching upon and integrating all aspects of the Institution's people and its operations. We do wish to point out to all users that the information presented herein was compiled at a specific time, July - September, 1986 to reflect the Academic Year, 1985-86. The majority of the information is extracted from management reports produced on a regular basis by the various source offices. When interpreting the figures presented, we advise you to always note the time frame rereferenced in the individual tables.

We continue to revise our format and add new information in an effort to make the Factbook as current as possible, as well as an historical overview. Ideas for improvements and suggestions for additional data are encouraged.

Any questions, corrections or concerns should be addressed to the Office of Information Systems, Dugan Hall, South Campus, Extension 2789.

UNIVERSITY OF LOWELL: HISTORY, LOCATION AND FACILITIES

HISTORY

The University is the result of the merger in mid-1975 of the Lowell Technological Institute and Lowell State College. The University is one of three public institutions in Massachusetts of university status and is the only one located in the northeast region of the Commonwealth.

Lowell Technological Institute was established in 1895 as Lowell Textile School and became part of the higher education system of Massachusetts in 1918. Its name was changed to Lowell Textile Institute in 1920 and to Lowell Technological Institute in 1953. From 1950 until it became part of the University, the Institute engaged in a program of expansion and diversification in Engineering, Science and Business Administration.

Lowell State College was established in 1894, as the Massachusetts State Normal School at Lowell. The scope of the curriculum was expanded beginning in 1912 and in 1932 it was made a four-year college with the right to confer the baccalaureate degree in both elementary and music education. In September, 1959, Lowell State College received permission to offer curricula in secondary education and in the following year to initiate programs in the liberal arts.

LOCATION AND FACILITIES

The University is located twenty-five miles northwest of Boston in the City of Lowell. The University's facilities are located at several sites, two of which were formerly the campuses of Lowell Technological Institute (the North Campus) and Lowell State College (the South Campus). These campuses are approximately one mile apart. The North Campus, which includes 25 buildings, spreads across 65 acres along the Merrimack River, a half-mile from the center of the city. Included are an auditorium/administration building, a library, classroom/laboratory buildings, Research Foundation, residence halls, a Student Union Building and a gymnasium. The South Campus is located on 40 acres on the northwest periphery of the City of Lowell and includes classroom buildings, a residence hall, a Student Union Building, a dining hall, a music performance building and a library. In addition, the University has an ice hockey facility (Tully Forum) located in the nearby town of Billerica.

In 1984, the University acquired a West Campus in the town of Chelmsford. This campus houses the College of Education, the Center for Field Studies and Services, and in the future shall provide land for athletic fields.

In 1986, due to the need for additional space, the Department of Computer Science was moved to rental space in the Wannalancit Mill Complex, on 175 Cabot Street, several blocks away from the Research Foundation.

UNIVERSITY OF LOWELL MISSION STATEMENT

The University of Lowell is a publicly-supported institution of higher learning located in the northeast section of Massachusetts. It seeks to discover, integrate and transmit knowledge. The University emphasizes programs in the professional areas of education, engineering, health, management, music and science. At the same time, the University strongly believes in the value of a Liberal Arts education both for its own sake and as a major component of professional preparation.

Degree programs are offered at the bachelor, master and doctoral levels. Graduate programs concentrate in those areas where there is a strong regional need or where the University possesses superior resources. The University also provides maximum opportunity for life-long learning through a wide variety of credit and non-credit continuing education courses.

The University is committed to the promotion of scholarly research and creative, artistic achievement. It seeks to create new knowledge in the belief that an atmosphere of original inquiry supports both the instructional and public service goals of the University.

The University has a special obligation to provide quality teaching in all its academic programs. It will continually seek more effective methods of imparting knowledge and understanding thus enabling its students to fully develop their abilities.

Recognizing its role as a public institution, the University provides service to the people of the Commonwealth through instruction, research and consulting, cultural events and continuing education. The University will, through its staff, continue to remain visible through its involvement in community service affairs.

Finally, the University of Lowell has a responsibility to implement the principles of equal opportunity and affirmative action. It is committed to ensuring that all students and employees, particularly those in protected designations, are guaranteed the benefits of a just and equitable system.

SOURCE: The Master Plan for the University of Lowell.

FUNCTIONAL LISTING

Academic Departments	Listed in Telephone Book	
Admissions - Undergraduate	Lawrence Martin	x2413
Admissions - Graduate	Harry Rubinstein	x2206
Admissions - Transfer	Gerald Durkin	x2798
Affirmative Action	Barbara Lyman	x2379
Athletic Information	Athletic Office	x2370
Athletic Information (tickets)	Athletic Office	x2897
Athletic Reservations	Issue Room	x2376
Budget Analyst (University)	Daniel Brosnan	x2216
Campus Police - Emergency	Ball Hall	x2666
Campus Police - Security	Ball Hall	x2394
Campus Police - Chief	James Rowe	x2384
Catalogues - Undergraduate	Bookstore	x2248
Catalogues - Graduate	Graduate Office	x2206
Catalogues - Continuing Ed.	Con't. Ed. Office	x2221
Comptroller	James Sullivan	x2227
Computer Center	Olsen Building	x2498
Continuing Education Information	Cumnock Hall	x2221
Continuing Ed. Credit Courses	Elizabeth Saucier	x222[illegible]
Continuing Ed. Non-Credit Courses	Patricia Duff	x2221
Continuing Ed. Workshops/Seminars	Dirk Messelaar	x222[illegible]
Co-op Education	Robert Hardin	x28[illegible]
Counseling Center	Noel Cartwright	x239[illegible]
Career Counseling	Christine Cat[illegible]	x2390
Duplicating - North	Carol Gianopoulos	x2226
Duplicating - South	Ann Tevnan	x2633

Facilities Manager	Don Briselden	x2395
Financial Aid	Walter Costello	x2497
Freshmen - Dean	James Donohoe	x2209
Health Insurance - Employee Questions	Patricia Gallagher	x2623
Health Services Director	Ann Peterson	x2829
Health Services - North Campus	30 Standish St.	x2280
- South Campus	S.U.B. room 224	x2463
Housing for Students	Laurence Siegal	x2210
Information/"Public"	Catherine Quinn	x2219
Information/Statistics	Richard Barrett	x2789
Library-Director of University	Bernard Franckowiak	x2974
Library General Information - North	Jan Marie Fortier	x2955
Library General Information - South	Rosanna Kowalewski	x2481
Audio visual	See Media	
Circulation Desk - North	Laura Edwards	x2382
Circulation Desk - South	Marjorie Ryder	x2483
Computer Search - North	Barbara Farah	x2386
	Joan Ellis	x2386
Computer Search - South	Elaine Rigby	x2485
	Ronald Karr	x2485
Government Documents - North	Joanne Carpenter	x2383
Media Center - South	Paul Coppens	x2487
Media Center - North	Terry Futrell	x2385
Serials	Joseph Gabriels	x2482
Mailroom - Faculty/Staff	Sue Howard	x2255
Mailroom - Student - North	Norma Sheppard	x2249

Mailroom - Student - South	Connie Skinner	x2460
Maintenance Information	Walter Green	x2395
Medical Emergencies	Ann Peterson	x2280
Payroll	Patricia Gallagher	x2623
Personnel	Joan Roberts	x2420
Placement Office	Manny Panos	x2334
Police Emergencies	Campus Police	x2666
Purchasing Procedures/Bid Methods	Frank Duggan	x2224
Public Relations	Kay Petruzziello	x2229
Re-admissions	Lawrence Martin	x2413
Registrar/Student Records	Louis Demetroulakos	x2266
Research Foundation	Edward Miller, Jr.	x2352
Retirement Questions	Joan Roberts	x2420
Room/Building Reservations	Walter Green	x2395
Second Chance Program	Joyce Denning	x2479
Special Academic Services	William McMillan	x2453
Student Affairs Questions/Dean	Leo King	x2208
Telecommunications	Raymond Vigeant	x2534
Telephone Questions	Lorraine Ledoux	x 0
Vending Machine Problems		x2241
Word Processing	Patricia Ouellette	x2870

HONORARY DEGREES AWARDED
BY THE
UNIVERSITY OF LOWELL

1976 Dr. Matina Horner
Eugene Wigner

1977 Thomas H. Weller, M.D.
Arthur Fiedler (deceased)

1978 Dr. Abraham Sachar
Edson DeCastro

1979 Dr. Maurice L. Albertson
Dr. Patrick J. Mogan

1980 Oscar Handlin
John DeBelle

1981 Senator Paul E. Tsongas
Rev. Robert F. Drinan
Robert Fitzgerald
Brendan D. Leahey, M.D.

1982 Harry H.S. Chou
Robert H. Sloan
Dr. Barbara L. Nichols

1983 John Brademas
Vessarios G Chigas
Joseph P. Flannery
Andrew Ouellette

1984 Michael H. Anderson
Dr. Harold E. Edgerton
Rev. J. Bryan Hehir
Raymond Stata
Philippe Villers

1985 Milton Greenberg
Frederick Obear
Theodore Sizer
Lester Carl Thurow

1986 John J. Cullinane
John M. Deutch
Gerard Piel
John W. Poduska

UNIVERSITY OF LOWELL DEGREE PROGRAMS

COLLEGE OF EDUCATION

Degree: BACHELOR OR ARTS Abbreviation: B.A.

Majors: Elementary Education (Programs suspended 6/30/85)
Majors: Secondary Education (Programs suspended 6/30/81)

Degree: MASTER OF EDUCATION Abbreviation: M.Ed.

Fields: Curriculum & Instruction* (Options: Computer Education, Economics Education, Experienced Teachers, Initial Certification, Technology & Learning Environments)
Educational Administration+ (Option: Human Services-Non Health Services Related)
Reading & Language

Degree: CERTIFICATE OF ADVANCED GRADUATE STUDY Abbreviation: C.A.G.S.

Fields: Administration, Planning and Policy
Curriculum and Instruction (Option: Technology and Learning Environments)
Reading and Language

Degree: DOCTOR OF EDUCATION Abbreviation Ed.D.

Fields: Language Arts and Literacy
Leadership in Schooling
Science and Mathematics Education
Educational Administration (Joint Program with U Mass/Amherst)
Educational Technology (Joint Program with U Mass/Amherst-begin 87-88)

==========

COLLEGE OF ENGINEERING

Degree: ASSOCIATE OF SCIENCE IN ENGINEERING TECHNOLOGY (Continuing Ed. only)
Abbreviation: A.S.E.T.

Fields: Civil Engineering Technology
Electronic Engineering Technology
Mechanical Engineering Technology

Degree: BACHELOR OF SCIENCE IN ENGINEERING TECHNOLOGY (Continuing Ed. only)
Abbreviation: B.S.E.T.

Fields: Civil Engineering Technology
Electronic Engineering Technology
Mechanical Engineering Technology

COLLEGE OF ENGINEERING (Continued)

Degree: BACHELOR OF SCIENCE IN INDUSTRIAL TECHNOLOGY — Abbreviation: B.S.I.T.

(Options: Manufacturing, Water & Wastewater Technology)

Degree: BACHELOR OF SCIENCE IN ENGINEERING — Abbreviation: B.S.E.

Fields: Chemical Engineering
Civil Engineering
Electrical Engineering
Mechanical Engineering
Nuclear Engineering
Plastics Engineering

Degree: MASTER OF MANAGEMENT SCIENCE IN MANUFACTURING ENGINEERING — Abbreviation: M.M.S.M.E.

Degree: MASTER OF SCIENCE IN ENGINEERING — Abbreviation: M.S.E.

Fields: Chemical Engineering+
Civil Engineering
Computer Engineering
Electrical Engineering
Energy Engineering (Options: Nuclear, Solar)
Environmental Studies
Mechanical Engineering
Paper Engineering
Plastics Engineering (Options: Coatings & Adhesives, Synthetic Fibers)
Plastics
Systems Engineering

Degree: DOCTOR OF ENGINEERING — Abbreviation: Eng.D.

Fields: Chemical Engineering
Electrical Engineering
Mechanical Engineering
Plastics Engineering

==========

COLLEGE OF HEALTH PROFESSIONS

Degree: BACHELOR OF SCIENCE — Abbreviation: B.S.

Majors: Health Education
Clinical Laboratory Sciences (Options: Medical Technology, Clinical Science)
Nursing
Physical Therapy

COLLEGE OF HEALTH PROFESSIONS (Continued)

Degree: MASTER OF SCIENCE Abbreviation: M.S.

Fields: Clinical Laboratory Sciences (Pending Regents Approval)
Health Services Administration
Nursing (Option Required in one of the following: Administration of Nursing Services, Family/Community Health Nursing, or Gerontological Nursing)

==========

COLLEGE OF LIBERAL ARTS

Degree: ASSOCIATE OF SCIENCE (Cont. Ed. only) Abbreviation: A.S.

Field: Public Service (Options: Corrections Administration, Political Science)

Degree: BACHELOR OF SCIENCE Abbreviation: B.S.

Major: Public Service: Administration of Criminal Justice

Degree: BACHELOR OF ARTS Abbreviation: B.A.

Majors: American Studies
Art
English
French
History
Modern Languages
Philosophy
Political Science
Psychology
Sociology
Spanish

Degree: BACHELOR OF FINE ARTS Abbreviation: B.F.A.

Specializations:
Drawing & Painting
Commercial Art

Degree: BACHELOR OF LIBERAL ARTS Abbreviation: B.L.A.

Degree: MASTER OF ARTS Abbreviation: M.A.

Field: Community & Social Psychology
Criminal Justice

COLLEGE OF MANAGEMENT SCIENCE

Degree: ASSOCIATE OF SCIENCE (Cont. Ed. only) Abbreviation: A.S.
Fields: Accounting
Banking
Management

Degree: BACHELOR OF SCIENCE# (Cont.Ed. only) Abbreviation: B.S.
Fields: Accounting
Banking
Management

Degree programs to be phased out effective 12/31/87.

Degree: BACHELOR OF ARTS Abbreviation: B.A.
Major: Economics

Degree: BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION Abbreviation: B.S.B.A.
Concentrations:
Accounting (Options in Public Accounting, Management Accounting, Institutional Accounting)
Economics (Options in Financial Management, Human Resource International Management, Management Information Systems, Marketing Management, Operations Management, General Management)

Degree: BACHELOR OF SCIENCE IN INDUSTRIAL MANAGEMENT Abbreviation: B.S.I.M.

Degree: MASTER OF BUSINESS ADMINISTRATION Abbreviation: M.B.A.

==========

COLLEGE OF MUSIC

Degree: BACHELOR OF ARTS Abbreviation: B.A.
Major: Music

Degree: BACHELOR OF MUSIC Abbreviation: B.M.
Specializations:
Music Education
Music History
Music Theory/Composition
Performance (Options: Jazz Studies, Sound Recording Technology, Music Business)

Degree: MASTER OF MUSIC Abbreviations: M.M.
Fields: Music Education
Musicology
Music Theory/Composition
Performance (Option: Conducting)

COLLEGE OF PURE AND APPLIED SCIENCE

Degree: ASSOCIATE OF SCIENCE (Continuing Ed. only) Abbreviation: A.S.
Fields: Information Systems
Applied Chemistry
Applied Mathematics (Option: Computer Option)

Degree: BACHELOR OF SCIENCE (Continuing Ed. only) Abbreviation: B.S.
Fields: Information Systems
Applied Chemistry
Applied Mathematics (Option: Computer Option)

Degree: BACHELOR OF ARTS Abbreviation: B.A.
Majors: Chemistry
Environmental Science

Degree: BACHELOR OF SCIENCE Abbreviation: B.S.
Majors: Biological Sciences (Biotechnology Option)
Chemistry
Computer Science
Environmental Science (Geology Option)
Mathematics (Options: Statistics, Applied Mathematics, Computer, Pure Mathematics)
Meteorology
Physics (Options: Applied Physics/Optics)
Radiological Health Physics

Degree: MASTER OF SCIENCE Abbreviation: M.S.
Fields: Biological Sciences (Biotechnology Option)
Chemistry
Computer Science
Mathematics (Options: Applied Mathematics, Computer, Statistics & Operations Research, or Mathematics for Teachers)
Physics
Polymer Science
Radiological Science

Degree: DOCTOR OF PHILOSOPHY Abbreviation: Ph.D.
Fields: Chemistry (Options: Biochemistry, Environmental Studies, Polymer Science/Plastics Engineering)
Physics (Options: Applied Mechanics, Computational Physics, Energy Engineering, Radiological Science)

Degree: DOCTOR OF SCIENCE Abbreviation: Sc.D.
Field: Computer Science

SPECIAL ACCREDITATION ASSOCIATIONS

COLLEGE OF HEALTH PROFESSIONS		DATE OF NEXT VISIT
Nursing:	National League of Nursing	Fall 1993
	Massachusetts Board of Registration in Nursing	Fall 1987
Medical Technology:	National Accrediting Agency for Clinical Lab Sciences, Council on Allied Health Education of the American Medical Association	Spring 1989
Physical Therapy:	American Physical Therapy Association	Fall 1986
Health Education:	N.C.A.T.E.	Spring 1989
	I.C.C.	Spring 1990
COLLEGE OF EDUCATION		
Education:	National Council for Accreditation of Teacher Education	Spring 1990
	Interstate Certification Compact	Spring 1988
COLLEGE OF ENGINEERING		
Civil Engineering:	Accrediting Board for Engineering & Technology (A.B.E.T.)	Fall 1988
Electrical Engineering:	(A.B.E.T.)	Fall 1988
Mechanical Engineering:	(A.B.E.T.)	Fall 1988
Nuclear Engineering:	(A.B.E.T.)	Fall 1988
Chemical Engineering:	(A.B.E.T.)	Fall 1988
Plastics Engineering:	(A.B.E.T.)	Fall 1988
Civil Eng. Technology:	(A.B.E.T.)	Fall 1987
Mechanical Eng.Technology:	(A.B.E.T.)	Fall 1987
Electrical Eng.Technology:	(A.B.E.T.)	Fall 1987
Industrial Technology:	National Association of Industrial Technology	Fall 1990
COLLEGE OF MUSIC		
Music:	National Association of Schools of Music	Spring 1988
Music Ed.:	Interstate Certification Compact	December 1986
	N.C.A.T.E.	Spring 1990

Source: Academic Affairs

ACADEMIC YEAR - 1986-87

Fall Semester 1986

August	26 Wednesday	- Late Registration for Fall Semester Last Day for Students to Register for Fall Semester
September	1 Monday	- Labor Day (University Closed) Dormitories Open at 12 Noon
	2 Tuesday	- Fall Classes Begin Drop-Add Period Begins for Registered Students
	12 Friday	- Last Day for Instructors to Publish Course and Attendance Requirements for Class Members
	15 Monday	- Last Day for Registered Students to: (1) Add a Course, (2) Change Sections within a Course, (3) Drop a Course Without Record, and (4) Change Enrollment Status from Audit to Credit, Credit to Audit, " Pass-No Credit" to Letter Grade to "Pass No Credit"
	26 Friday	- Last Day for Students to Complete Work for Incomplete Spring Semester and Summer Session (1986) Courses
October	2 Thursday	- Last Day for Faculty to File Grades for Incompletes and Changes of Course Grades for Spring Semester and Summer Session (1986) Courses
	13 Monday	- Columbus Day (University Closed)
	15 Wednesday	- Monday Class Schedule - Trustees Vote on Candidates for Summer Degrees
	20 Monday	- Mid-Semester: At Least One Evaluation Required in Each Course by Mid-Semester Point
	28 Tuesday	- Last Day for Students to Drop Courses Without Penalty (With Course Notation of "W") Last Day for College Deans to Submit Lists of Seniors Who Anticipate Completion of Degree Requirements by the End of December to the Associate Vice President for Instruction Faculty Advising Period for Student Selection of Spring Semester (1987) Courses Begins First Day for Seniors Who Anticipate Completion of Degree Requirements by the End of May or the End of August to Confer with Faculty Advisors and to File Programs of Baccalaureate Studies
November	1 Saturday	Last Day for Academically Suspended Students to File Readmission Applications for Spring Semester (1986) Probation Status Last Day for Students to File Spring Semester (1986) Petitions for Intercollegiate Transfer Within the University
	11 Tuesday	- Veterans Day (University Closed) - Faculty Advising Period for Student Selection of Spring Semester (1987) Courses Ends Last Day for Seniors Who Anticipate Completion of Degree Requirements by the End of May or the End of August to Confer with Faculty Advisors and to File Programs of Baccalaureate Studies

	26 Wednesday	- Thanksgiving Recess Begins at 6:00 P.M.
December	1 Monday	- Classes Resume
		- Registration for Spring Semester (1987) Begins at 9:00 A.M.
	3 Wednesday	- Registration for Spring Semester (1987) Ends at 5:00 P.M.
	5 Friday	- Last Day for Faculty to Administer Quizzes and Examinations Prior to Final Examination Period
	12 Friday	- Last Day for Fall Semester Classes
	13 Saturday	- Fall Semester Examinations Begin
	20 Saturday	- Fall Semester Examinations Scheduled
	22 Monday	- Fall Semester Examinations End Winter Recess Begins at 6:00 P.M.
	23 Tuesday	- Dormitories Close at 10:00 A.M.
	26 Friday	- Last Day for Faculty to File Fall Semester Grades

Spring Semester 1987

January	14 Wednesday	- Late Registration for Spring Semester Last Day for Students to Register for Spring Semester
	19 Monday	- Martin Luther King Day (University closed) - Dormitories Open at 12 Noon
	20 Tuesday	- Spring Classes Begin Drop-Add Period Begins for Registered Students
	30 Friday	- Last Day for Instructors to Publish Course and Attendance Requirements for Class Members
February	2 Monday	- Last Day for Registered Students to (1) Add a Course, (2) Change Sections Within a Course, (3) Drop a Course Without Record, and (4) Change Enrollment Status from Audit to Credit, Credit to Audit, "Pass-No Credit" to Letter Grade, or Letter Grade to "Pass-No Credit"
	13 Friday	- Last Day for Students to Complete Work for Incomplete Fall Semester (1985) Courses
	16 Monday	- Washington's Birthday (University Closed)
	17 Tuesday	- Monday Class Schedule
	19 Thursday	- Last Day for Faculty to File Grades for Incompletes, and Changes of Course Grades for Fall Semester (1985) Courses
March	13 Friday	- Mid-Semester: At Least One Evaluation Required in Each Course by Mid-Semester Point - Spring Recess Begins at 6:00 P.M.
	14 Saturday	- Dormitories Close at 10:00 P.M.
	18 Wednesday	- Trustees Vote on Candidates for Fall Degrees
	22 Sunday	- Dormitories Open at 12 Noon
	23 Monday	- Classes Resume
	24 Tuesday	- Last Day for Students to Drop Courses Without Penalty (With Course Notation of "W")

April	1 Wednesday	- Last Day for Academically Suspended Students to File Readmission Applications for Fall Semester (1987) Probationary Status
		Last Day for Students to File Fall Semester (1987) Petitions for Intercollegiate Transfer Within the University
		Last Day for College Deans to Submit Lists of Seniors Who Anticipate Completion of Degree Requirements by the End of May or the End of August to the Associate Vice President for Instruction
		Faculty Advising Period for Student Selection of Fall Semester (1987) Courses Begins
		First Day for Seniors Who Anticipate Completion of Degree Requirements by the End of December (1987) to Confer With Faculty Advisors and to File Programs of Baccalaureate Studies
	20 Monday	- Patriot's Day (University Closed)
	22 Wednesday	- Monday Class Schedule
	24 Friday	- Faculty Advising Period for Student Selection of Fall Semester (1987) Courses Ends
		Last Day for Seniors Who Anticipate Completion of Degree Requirements by the End of December (1987) to Confer With Faculty Advisors and to File Programs of Baccalaureate Studies
	27 Monday	- Registration for Fall Semester (1987) Begins at 9:00 A.M.
	29 Wednesday	- Registration for Fall Semester (1987) Ends at 4:00 P.M.
	30 Thursday	- Friday Class Schedule
		- Last Day for Faculty to Administer Quizzes and Examinations Prior to Final Examination Period
May	1 Friday	- University Day (No Classes)
	7 Thursday	- Last Day of Spring Semester Classes
	8 Friday	- Spring Semester Examinations Begin
	9 Saturday	- Spring Semester Examinations Scheduled
	16 Saturday	- Spring Semester Examinations End
	17 Sunday	- Dormitories Close at 10:00 A.M. for Non-Graduating Students
	19 Tuesday	- Last Day for Faculty to File Spring Semester Grades
	30 Saturday	- University Commencement

ADMINISTRATION AND FACULTY

UNIVERSITY OF LOWELL

OFFICERS OF THE BOARD OF TRUSTEES

Chairperson.....Edward D. Grayson

Vice Chairperson.....Alan D. Solomont

Secretary.....Fred M. Winsmann

MEMBERS OF THE BOARD OF TRUSTEES

Richard K. Donahue.....(1990)

George L. Duggan.....(1987)

Mary Ellen Fitzpatrick...(1987)

James E. Georgalos.....(1987)

Edward D. Grayson.....(1987)

Charles D. McKinney.....(1989)

Mary Jane Powell.....(1989)

Alan D. Solomont.....(1989)

Paul E. Tsongas.....(1989)

Philippe Villers.....(1989)

(Student) Fred M. Winsmann.....(1987)

Note: Appointments expire March 1st of year indicated.

UNIVERSITY OF LOWELL BUILDING AUTHORITY

The general purpose of the Authority is to assist the University in the performance of its educational and other purposes by providing dormitories, dining commons and other building structures for the use of the University, its students, staff and the University of Lowell Research Foundation. The Enabling Act grants the Authority the power to acquire property from the Commonwealth or others, to construct or alter buildings or structures, to provide and install furnishings, furniture, equipment, and other facilities, to operate projects and provide services therein, to employ professional and other persons, to enter into contracts and generally to do all acts and things necessary or convenient to carry out its powers. The Authority has the power to borrow money, to issue and sell its revenue notes and bonds therefore payable solely from its revenues. The Authority is composed of nine members appointed by the Governor of the Commonwealth, of whom three are required to be appointed members of the University Trustees and three are required to be graduates of the Institute, Lowell State, or the University. The remaining three are public members. The following are the present Building Authority members:

Angelike P. Georgalos (June 30, 1986)
Starr Betses, (June 9, 1989)
Mortimer McGrath, Esq., Chairman (June 30, 1987)
Charles D. McKinney (March 1, 1989)
Mark W. Mulligan (June 30, 1986)
Maureen Sheehy (June 30, 1986)
Sean Sullivan (June 30, 1991)

NOTE: Appointment expires on the date indicated.

SOURCE: Office of the Executive Director of the University of Lowell Building Authority, Donna Tabloski - Summer, 1986.

FALL 1986

OFFICERS OF THE UNIVERSITY

President	William T. Hogan
Vice President for Academic Affairs	Robert J. Foy
Vice President for Student Affairs	Mary E. McGauvran
Vice President for Administration and Finance	Susan A. Goodwin
Vice President for Technical Resource Development	Thomas M. Costello

OFFICE OF THE PRESIDENT

Assistant to the President	Frederick P. Sperounis
Special Assistant to the President for Affirmative Action	Barbara E. Lyman
Senior Administrative Assistant	Joyce A. Sullivan
Office of Institutional Advancement	Catherine G. Quinn, Director
	Barbara N. Dunsford, Director of University Annual Giving
	Kathleen Petruzziello, Director of Alumni Affairs
	Florence Z. Lacouture, Coordinator for Alumni Records & Research

OFFICE OF ACADEMIC AFFAIRS

Associate Vice President for Academic Affairs	Robert B.Wagner
Associate Vice President for Instruction	Paul W. Rahmeier
Associate Vice President for Research	Leon E. Beghian
College of Health Professions	Eleanor F. Shalhoup, Dean
Assistant Dean	Susan M. Wozenski
College of Pure & Applied Science	Arthur C. Watterson, Acting Dean
Assistant Dean	F. Raymond Hardy
College of Engineering	Aldo M. Crugnola, Dean
Assistant Dean	Richard C. Minesinger
College of Management Science	Benjamin Chinitz, Dean
Assistant Dean	F. Joseph Thomas
College of Music	Gerald J. Lloyd, Dean
Assistant Dean	Erich J. Lear
College of Liberal Arts	Patricia A. Goler, Dean
Assistant Dean	Richard L. Derry
College of Education	M. Virginia Biggy, Dean

OFFICE OF ACADEMIC AFFAIRS (Continued)

Graduate School	Harry Rubinstein, Dean
Assistant Dean	Paula A. Robbins
Director, Continuing Education and Summer School (Acting)	David H. Pfister
Associate Director (Acting)	Dirk Messelaar
Registrar, Director of University Records	Louis J. Demetroulakos
Scheduler and Assistant Registrar	Joseph P. Antonuccio, Jr.
Director, Special Academic Services	William L. McMillan
Associate Director	Conley H. Hughes, Jr.
Director, Computer Center	Suresh C. Mathur
Associate Director	Donald R. Donati
Assistant Director	James H. Doherty
Administrative Data Systems Supervisor	Julia F. Connors
Director of Libraries	Bernard M. Franckowiak
Director, University Telecommunications/Maintenance	Raymond A. Vigeant
Director of Minority Students	J. Wayne Dudley

OFFICE OF ADMINISTRATION AND FINANCE

Facilities Manager	Don J. Briselden
Director of Safety, Security & Supervisor of Building Maintenance	J. Paul Daigle
Chief Engineer, Director of Physical Plant, Operations & Construction	Charles J. DeFilippo
Campus Police Chief	James W. Rowe, Sr.
Associate Nuclear Facility Engineer	Frederick R. Perrault
Staff Assistant/Facilities Office	Walter F. Green
Staff Assistant/Housekeeping	Rene Cote
Staff Assistant/Safety Office	Richard Lemoine
Comptroller & Director of Budget	James A. Sullivan
Staff Assistant III/Budgetary Control	Cecile Paquin
Director of Accounts Receivable	John B. Perroni
Assistant Business Office Manager	Michael J. Chory
Director of Accounts Payable	George S. Zaharoolis
Director of Payroll	Patricia J. Gallagher
Director of Purchasing	Francis J. Duggan, Jr.
Director of Personnel/ Classified Labor Relations	Joan M. Roberts
Executive Director of the Research Foundation	Edward F. Miller, Jr.
Budget Analyst	Daniel B. Brosnan, Jr.
Staff Assistant for Information Systems	Richard S. Barrett
Staff Assistant/Administration & Finance	Allison M. Richards
Duplicating Office	Carol Gianopoulos
Mailroom	Susan J. Howard
Communications (Telephone)	Lorraine I. LeDoux
Staff Assistant for Word Processing	C. Patricia Ouellette

UNIVERSITY ADMINISTRATORS
FALL 1986

OFFICE OF STUDENT AFFAIRS

ADMISSIONS:

Director of Admissions	Lawrence R. Martin
Dean of Admissions	Maurice W. Harrison
Director of Transfer Admissions	Gerald J. Durkin, Jr.
Assistant Director of Admissions	James M. Busch
Assistant Director of Admissions	Jacqueline M. Fidler
Assistant Director of Admissions	Julia F. Slates
Staff Assistant	Bruce D. Stacy
Staff Assistant	Claire Lessard

ATHLETICS:

Director of Athletics (Acting)	Ignatius A. Ciszek
Associate Director of Athletics and Ice Hockey Coach	William J. Riley, Jr.
Assistant Ice Hockey Coach	Donald Cahoon
Women's Varsity Basketball Coach	Kathleen A. O'Neil
Men's Varsity Basketball Coach	Donald D. Doucette
Track Coach	George E. Davis
Assistant Sports Information Director and Swimming Coach	Richard Kenney
Assistant Golf Coach	Frank W. Polack
Director of Athletic Training	Robert P.Worden
Assistant Trainer	Arthur J. Poitras
Supervisor of Aquatic/Athletic Complex	Andrew E. Cornellier
Director of Revenue	William F. Dunn
Issue Room Attendant	Thomas Croteau
Issue Room Attendant	William R. Droll

PLACEMENT:

Director of Career Planning and Placement	Aristomenis G. Panos
Associate Director of Career Planning and Placement	Robert A. Harding

COUNSELING:

Director of Counseling and Career Development Services	Noel J. Cartwright
College Counselor	Lanett G. Scott
College Counselor	Christine Oatis
College Counselor	Rhoda R. Trietsch

FINANCIAL AID:

Director of Financial Aid	Walter A. Costello
Assistant Director of Financial Aid	Judy Keyes

OFFICE OF STUDENT SERVICES:

Dean of Students	Leo F. King, Jr.
Dean of Freshmen	James S. Donohoe
Associate Dean of Students	Ellen C. Duggan
Assistant Dean of Students	Thomas C. Taylor

OFFICE OF STUDENT SERVICES (Continued):	
Food Service Coordinator & Supervisor of Student Complex	Peter N. Demogenes
Director of Housing	Laurence R. Siegal
Office of the Dean/Staff Assistant	Barbara J. Maccaron
Office of the Dean/Staff Assistant	Gladys M. Coughlin
HEALTH SERVICES:	
Director of University Health Service	Ann M. Peterson
Resident Nurse	Olive M. Leary
Resident Nurse	Maureen L. Wolfenden

ACADEMIC DEPARTMENTS AND CHAIRPERSONS

FALL 1986

COLLEGE OF EDUCATION		EXPIRATION DATE
Education	Dorothy Meyer	6/1/87
COLLEGE OF HEALTH PROFESSIONS		
Clinical Lab. Science	Alease Bruce	1/3/89
Nursing	May Futrell	5/30/87
Health	Karen Lorentzen	5/30/87
Physical Therapy	Joseph Dorsey	5/30/87
Physical Education	Claire Chamberlain	9/4/87
COLLEGE OF ENGINEERING		
Chemical Engineering	William Flood (Acting)	1/20/87
Civil Engineering	Donald Leitch	12/3/87
Electrical Engineering	Sidney Bowhill	9/1/89
Industrial Technology	Donald Pottle	1/1/87
Mechanical/Energy Eng.	Richard Madden	12/3/87
Plastics Engineering	Nick Schott	11/1/87
COLLEGE OF LIBERAL ARTS		
Art	Liana Cheney	6/1/89
Criminal Justice	Joseph Lipchitz	9/1/89
English	Martha McGowan	12/15/89
History	Peter Blewett	9/1/89
Languages	Mario Aste	1/21/88
Philosophy (Acting)	P.Christopher Smith	1/1/87
Political Science	Fred Lewis	9/1/89
Psychology	Richard Siegal	9/1/89
Sociology	Shirley Kolack	9/1/89
COLLEGE OF MUSIC		
Academic Studies	Antone Holevas	9/1/89
Music Education	Ruth Ashley	9/1/89
Performance	Ivan Oak (Acting)	1/1/87
COLLEGE OF MANAGEMENT SCIENCE		
Accounting	Clairmont Carter	1/21/88
Economics	Paul Snoonian	1/21/88
Management	Stuart Freedman	1/21/88
Marketing	Braxton Hinchey	1/21/88
COLLEGE OF PURE & APPLIED SCIENCE		
Biology	Thaddeus Osmolski	9/1/89
Chemistry	Samuel Sawan	9/1/89
Earth Science	Arnold O'Brien	9/1/89
Mathematics	Alan Doerr	1/18/88
Physics & Applied Physics	Zoltan Fried	3/21/87
Computer Science (Acting)	William Maloney Jr.	1/30/87

UNIVERSITY OF LOWELL
GRADUATE SCHOOL COORDINATORS

DEPARTMENT	COORDINATOR	ADDRESS	PHONE
Biological Science	Dr. Ilze Skare	Olsen 613	X2516
	Dr. Thaddeus Osmolski,Chair	Olsen 604	X2515
Chemical Eng.	Dr. Dominick Sama	E110	X2499
	Prof. H. W. Flood, Chair	E110	X2339
Chemistry/P.S.	Dr. Eugene Barry	Olney 318B	X2706
	Dr. Kenneth Marx (Biochem.)	Olney 501A	2704
	Dr. Arthur Watterson, Chair	Olney 501C	X2555
Civil Engineering	Dr. Louis C. Tartaglione	Falmouth 107C	X2323
	Prof. Donald Leitch, Chair	Falmouth 108	X2317
Computer Science	Prof. Charles Steele	Pinanski 311C	X2884
	Prof. William Moloney, Chair	Pinanski 200	X2389
Criminal Justice	Dr. Alan Jay Lincoln	Coburn 403	X2630
	Dr. Joseph Lipchitz, Chair	Coburn 209	X2627
Education	Dr. Gail Carney	Upham 1	X2774
	Dr. Anne McParland	Gould 2	X2432
Electrical Eng.	Prof. Donn Clark (M.S.)	Ball 416C	X2439
	Dr. Sidney A Bowhill, Chair	Ball 315A	X2764
	Dr.Dikshitulu Kaliuri (D.Eng.)	Ball 211	X2765
Energy Eng. (M.E.)	Dr. Jose G. Martin	E222	X2780
Environ. Studies	Dr. Burton Segall	P109	X2652
Health Serv. Admin.	Dr. Beverly J. Volicer	Weed 324	X2476
	Dr. Karen Lorentzen, Chair	Weed 320	X2830
Manufacturing Eng.	Prof. John Colluccini	K210	X2751
Industrial Tech.	Prof. Donald Pottle, Chair	K210	X2606
Management	Dr. Santo Pullara	Pasteur 305C	X2690
Mathematics	Prof. Donald Ameen	Olsen 214	X2513
	Prof. Alan Doerr, Chair	Olsen 221	X2521
Mechanical Eng.	Dr. John McElman (D. Eng.)	Kitson 302	X2618
	Dr. Struan Robertson (M.S.)	E316	X2855
	Dr. Richard Madden, Chair	Ball 215	X2313
Music	Prof. Willis Traphagan	Durgin 211	X2366
Nursing	Dr. Elizabeth Daly	Weed 214	X2713
	Dr. May Futrell, Chair	Weed 208	X2447
Physics	Dr. Lloyd Kannenberg	Olney 119	X2566
	Dr. Zoltan Fried, Chair	Olney 136C	X2577
Plastics	Dr. Rudolph Deanin	Ball 107	X2307
	Dr. Steven Grossman	Ball 107	X2307
	Dr. Nick Schott, Chair & D.E.	Ball 123A	X2324
Psychology	Dr. Charles Nikitopoulos	Mahoney 8	X2436
	Dr. Richard Siegel, Chair	Mahoney 110	X2309
Rad. Science (Phys.)	Dr. Kenneth Skrable	Pinanski 110	X2239
	DEANS		
Health Professions	Dr. Eleanor F. Shalhoup	Weed 202	X2444
P. & A. Science	Dr. Arthur Watterson	Olney 524	X2500
Engineering	Dr. Aldo Crugnola	Kitson 311	X2322
Management	Dr. Ben Chinitz	Pasteur 307	X2296
Music	Dr. Gerald Lloyd	Durgin 112	X2250
Liberal Arts	Dr. Patricia A. Goler	Mahoney 213	X2457
Education	Dr. M. Virginia Biggy	Upham 1	X2450

TERMS OF OFFICE FOR MEMBERSHIP OF THE UNIVERSITY COUNCIL
1986-87

FACULTY COLLEGE REPRESENTATIVES

Dr. John Catalozzi	College of Education	Term Expires 5/1/88
Prof. Liana Cheney	College of Liberal Arts	Term Expires 5/1/88
Prof. Michael Frechette	College of Health Professions	Term Expires 5/1/87
Dr. Sheedhar Lele	College of Engineering	Term Expires 5/1/87
Prof. Kay Roberts	College of Music	Term Expires 5/1/88
Dr. Irwin Shapiro	College of Management Science	Term Expires 5/1/87
Dr. Arthur Mittler	College of P&A Science	Term Expires 5/1/88

FACULTY AT-LARGE

Dr. Richard Aronson	Physical Education	Term Expires 5/1/87
Dr. Mario Aste	Language Department	Term Expires 5/1/88
Dr. William Bannister	Chemistry Department	Term Expires 5/1/87
Prof. Carol Brown	Sociology Department	Term Expires 5/1/88
Dr. Gilbert Brown	Nuclear Engineering	Term Expires 5/1/87
Prof. James Coates	Art Department	Term Expires 5/1/88
Prof. Nina Coppens	Nursing Department	Term Expires 5/1/88
Mr. Paul Coppens	Director/Media Services	Term Expires 5/1/87
Ms. Rosanna Kowalewski	O'Leary Library	Term Expires 5/1/87
Prof. William Lindeke	Political Science	Term Expires 5/1/88
Prof. Paul Protopapas	Biological Science	Term Expires 5/1/87
Prof. Bernard Shapiro	Mathematics Department	Term Expires 5/1/87
Prof. Patricia Tyra	Nursing Department	Term Expires 5/1/87

CHAIR OF THE GRADUATE FACULTY

Dr. Linda Silka	Psychology Department	Ex officio

CHAIR OF THE FACULTY

Dr. Carol McDonough	Economics Department	Ex officio

ADMINISTRATION

Dr. Robert Foy	Vice-President for Academic Affairs
Dr. Mary McGauvran	Vice-President for Student Affairs
Mr. James Sullivan	Comptroller

ADMINISTRATION AT-LARGE

Ms. Joan Roberts	Director of Personnel	Term Expires 5/1/87
Mr. Lawrence R. Martin	Director of Admissions	Term Expires 5/1/88

COLLEGE DEAN

Dr. Harry Rubinstein	Dean, Graduate School	Term Expires 5/1/88

ALUMNI

Ms. Clementine Alexis	Alumni Representative	Term Expires 5/1/88
Ms. Catherine Goodwin	Alumni Representative	Term Expires 5/1/87

PRESIDENTIAL APPOINTEES

Mr. Andrew MacLean	Student Representative	Term Expires 5/1/88
Ms. Pat Ouellette	Mid-Management Rep.	Term Expires 5/1/88
Ms. Paul Marion	Community Representative	Term Expires 5/1/88

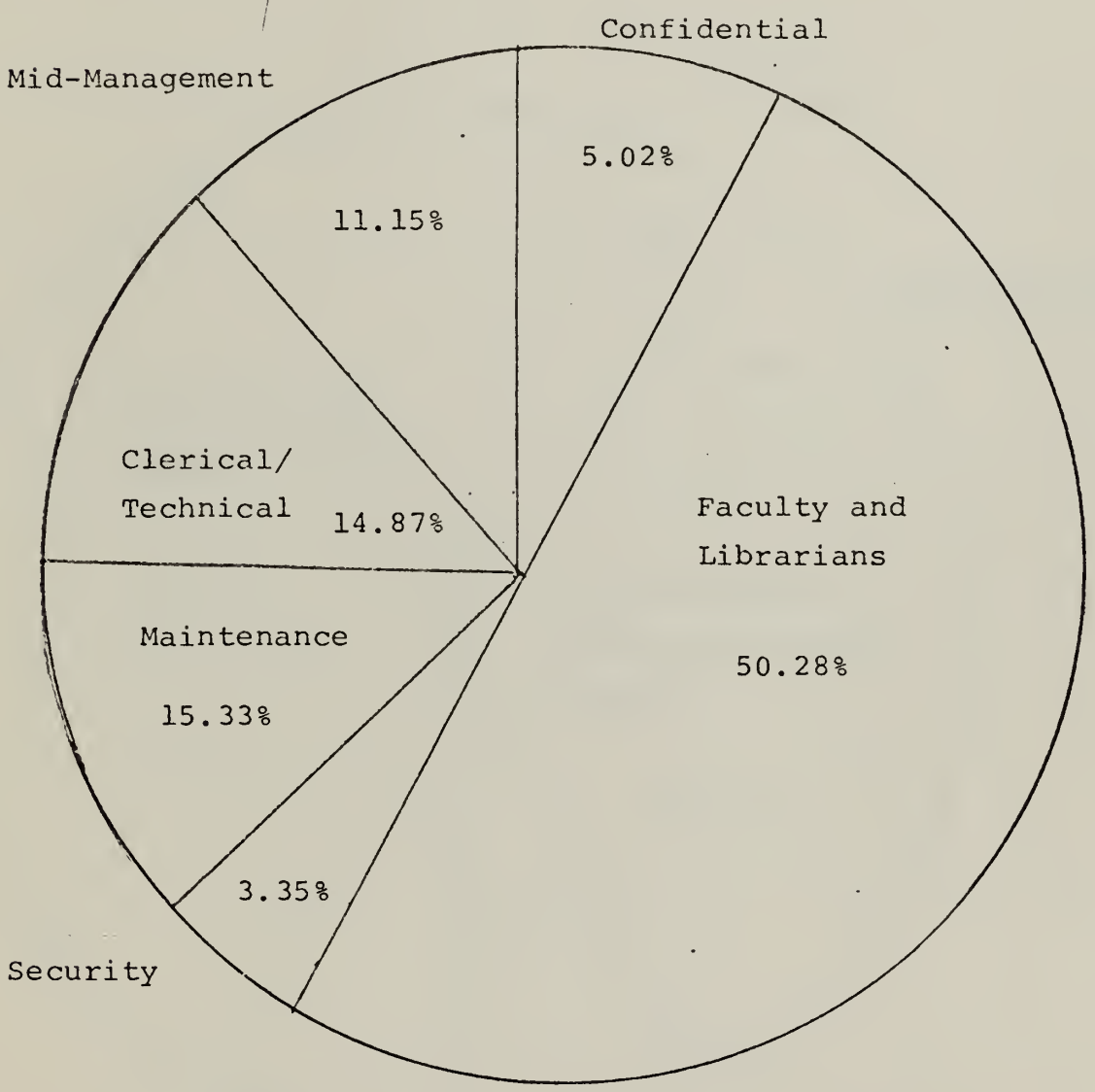
STUDENTS

	President of Interdormitory Council
Mr. Bob Richard	Graduate School Representative
Ms. Harli Dollinger	President of Graduate School Assoc.
	Student At-Large Representative
	Student At-Large Representative
Brian Possi	President of Student Government

JUNE 1986

DISTRIBUTION OF FULL-TIME FILLED/EQUIVALENT POSITIONS

AMONG THE COLLECTIVE BARGAINING UNITS

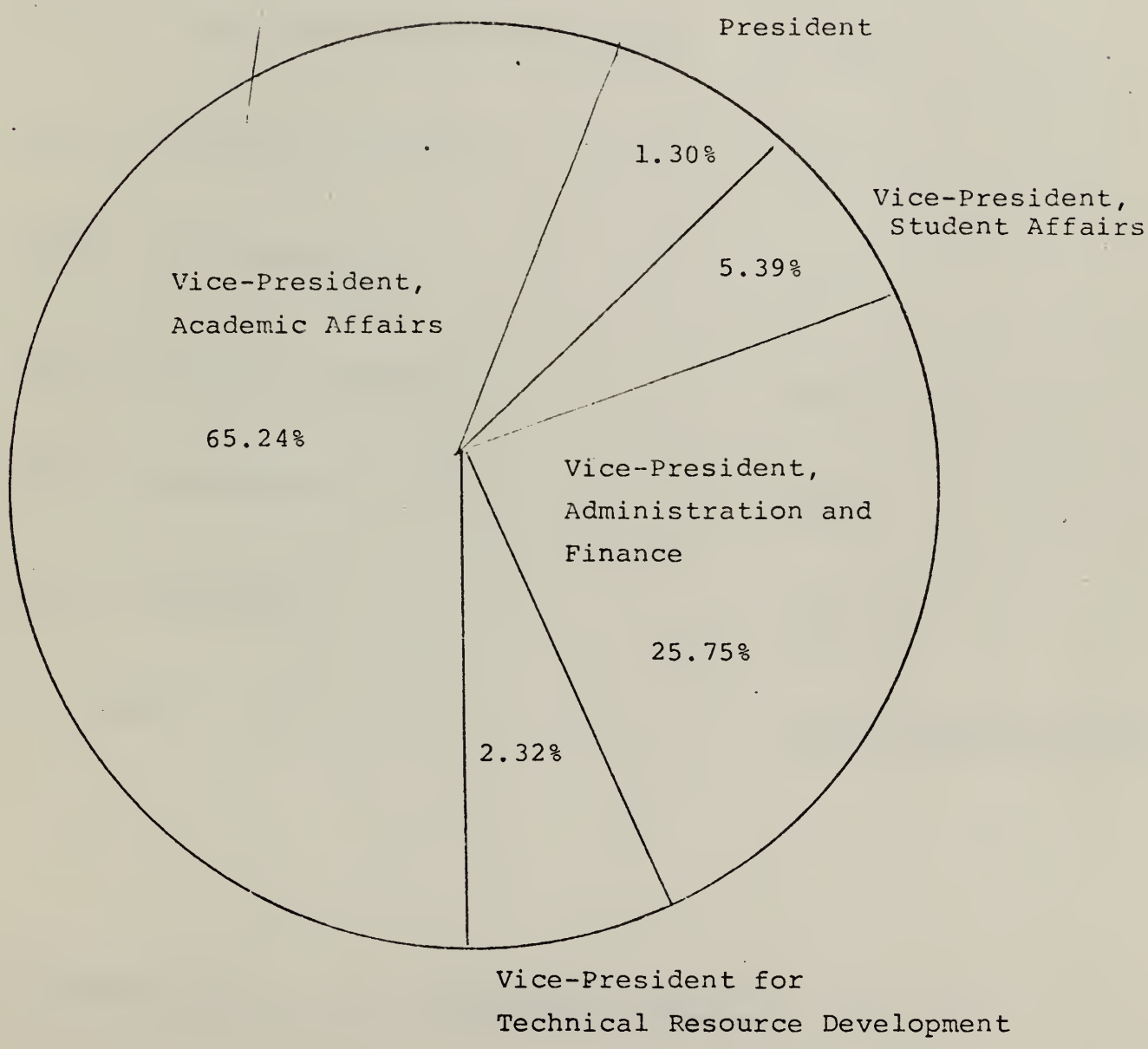


Includes a total of 1076 full-time equivalent positions from the Maintenance, A.I.D., and Boarding Hall budgets, as of June, 1986.

JUNE 1986

DISTRIBUTION OF FILLED FTE POSITIONS AMONG

THE MAJOR ORGANIZATIONAL AREAS



Includes a total of 1076 full-time equivalent positions from the Maintenance, A.I.D., and Boarding Hall budgets, as of June, 1986.

FILLED COLLECTIVE BARGAINING UNIT/FTE POSITIONS-JUNE 28, 1986

UNIT 0 - Upper Management/Confidential	54
UNIT 1 - Faculty, Librarians	541
UNIT 2 - Mid-Management	120
UNIT 3 - Clerical Technical	160
UNIT 4 - Maintenance	165
UNIT 5 - Security	36
Total	1076* Filled Positions

* Boarding Hall, A.I.D., Maintenance Budgets.

OCTOBER 1985

NUMBER OF FULL-TIME FACULTY BY COLLEGE, SEX AND RACE

COLLEGE	BLACK		ASIAN		CAUCASIAN		HISPANIC		AM. INDIAN		TOTAL
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
Engineering	1	0	12	1	89	2	1	0	0	0	106
Science	2	0	10	2	105	13	1	0	1	0	134
Management	3	0	8	0	34	12	1	0	0	0	58
Liberal Arts	1	1	1	2	63	31	2	1	0	0	102
Health	1	1	1	0	13	32	0	0	0	0	48
Music	1	2	1	0	14	2	0	1	0	0	21
Education	0	0	0	0	7	5	0	0	0	0	12
Total	9	4	33	5	325	97	5	2	1	0	

GRAND TOTAL 481

Female 108
Male 373

OCTOBER 1985

NUMBER OF FULL-TIME FACULTY BY COLLEGE, RANK AND SEX

COLLEGE Instructor Assistant Associate OCTOBER 1985

NUMBER OF FULL-TIME FACULTY BY COLLEGE, RANK AND SEX

COLLEGE	Instructor		Assistant		Associate		P Professor		Total
	Male	Female	Male	Female	Male	Female	Male	Female	
Education	0	0	1	2	3	3	3	0	12
Engineering	3	0	23	2	39	1	38	0	106
Health	1	11	5	12	4	7	5	3	48
Liberal Arts	0	1	20	8	25	19	22	7	102
Management	2	2	9	6	19	2	16	2	58
Music	0	0	4	0	5	5	7	0	21
Science	4	0	20	5	45	6	50	4	134
Total	10	14	82	35	140	43	141	16	481

Male 373 Grand Total 481

Female 108 Percent Male 78%

Percent Female 22%

OCTOBER 1985

NUMBER OF FULL-TIME FACULTY BY DEPARTMENT, RANK AND SEX

COLLEGE	INSTRUCTOR		ASSISTANT		ASSOCIATE		PROFESSOR		TOTAL	
	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE
EDUCATION	0	0	2	1	3	3	0	3	5	7
ENGINEERING										
Chemical	0	0	0	1	0	2	0	6	0	9
Civil	0	0	1	2	0	4	0	5	1	11
Electrical	0	0	0	6	0	19	0	7	0	31
Mechanical	0	3	0	5	0	7	0	11	0	26
Plastics	0	0	0	3	0	5	0	4	0	12
Nuclear	0	0	0	0	0	0	0	4	0	4
Industrial T.	0	0	1	6	1	2	0	1	2	9
TOTAL	0	3	2	23	1	39	0	38	3	103
HEALTH										
Clinical Lab.	0	0	1	1	2	2	0	3	3	6
Nursing	8	0	9	0	2	0	2	0	21	0
Physical Ed.	0	1	0	2	2	2	0	0	2	5
Health	0	0	0	2	1	0	1	1	2	3
Physical T.	3	0	2	0	0	0	0	1	5	1
TOTAL	11	1	12	5	7	4	3	5	33	15
LIBERAL ARTS										
Art	0	0	0	1	0	2	2	2	2	5
English	0	0	3	11	6	5	0	7	9	23
History	0	0	0	1	0	6	1	3	1	10
Language	0	0	1	1	0	4	0	2	1	7
Law & Justice	0	0	0	1	3	0	0	2	3	3
Philosophy	0	0	0	1	0	0	1	3	1	4
Political Sci.	1	0	1	2	1	1	1	1	4	4
Psychology	0	0	1	1	7	6	1	1	9	8
Sociology	0	0	2	1	2	1	1	1	4	3
TOTAL	1	0	8	20	19	25	7	22	35	67
MANAGEMENT										
Accounting	2	0	3	4	0	4	1	4	6	12
Economics	0	0	3	3	0	6	1	2	4	11
Management	0	2	0	2	2	9	0	10	2	23
TOTAL	2	2	6	9	2	19	2	16	12	46
MUSIC										
Academic	0	0	0	2	3	2	0	1	3	5
Performance	0	0	0	2	1	2	0	4	1	8
Education	0	0	0	0	1	1	0	2	1	3
TOTAL	0	0	0	4	5	5	0	7	5	16
SCIENCE										
Biology	0	0	1	1	2	7	1	3	4	11
Chemistry	0	0	1	3	1	6	2	12	4	21
Computer Sci.	0	4	0	6	0	5	0	3	0	18
Earth Sci.	0	0	0	2	0	2	0	2	0	6
Mathematics	0	0	3	6	3	17	1	10	7	33
Physics	0	0	0	2	0	8	0	20	0	30
TOTAL	0	4	5	20	6	45	4	50	15	119
TOTAL	14	10	34	81	43	140	16	141	108	373

NOVEMBER 1985

NUMBER OF FULL-TIME FACULTY BY

HIGHEST EARNED DEGREE, COLLEGE, AND SEX

COLLEGE	DOCTORATE		PROFESSIONAL		MASTERS		BACHELORS		TOTAL	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
ENGINEERING	70	1	1	0	30	2	2	0	103	3-106
SCIENCES	88	13	0	0	29	1	2	1	119	15-134
MANAGEMENT	33	7	3	2	10	3	0	0	46	12- 58
LIBERAL ARTS	44	29	0	1	22	5	1	0	67	35-102
HEALTH	10	14	0	0	3	19	2	0	15	33- 48
MUSIC	9	3	0	0	7	2	0	0	16	5- 21
EDUCATION	7	5	0	0	0	0	0	0	7	5- 12
TOTAL	261	72	4	3	101	32	7	1	373	108-481

	Doctorates	69.2%
7	Professionals	1.5%
133	Masters	27.7%
8	Bachelors	1.6%
481	Total	100%

FACULTY DEGREE DESIGNATIONS

Doctoral		Professional				Masters			Bachelors		
DA	DE	EDD	CE	JD	MD	AM	MED	MS	AB	BS	BMED
DAMT	DED	PHD				EDM	MM	SM			
DBA	DPHL	SCD				MA	MPA	MBA			
DCHE	DSC					MFA	MPH	MMS			

NOTE: CAGS and CPA are not to be used; instead, next highest degree earned is used.

FACULTY AGE PROFILE
FEMALE

FALL 1984

	Range	Median
Professor	41-58	48
Associate	33-67	50
Assistant	28-62	46
Instructor	28-41	36

FACULTY AGE PROFILE
MALE

FALL 1984

	RANGE	Median
Professor	37-67	47
Associate	40-67	45
Assistant	28-67	41
Instructor	33-63	40

FACULTY YEARS AT THE UNIVERSITY OF LOWELL
FEMALE

FALL 1984

	Range	Median
Professor	8-23	17
Associate	1-19	14
Assistant	0-19	4
Instructor	0- 2	1

FACULTY YEARS AT THE UNIVERSITY OF LOWELL
MALE

FALL 1984

	Range	Median
Professor	0-36	18
Associate	0-27	14
Assistant	0-25	13
Instructor	0-18	3

OCTOBER - 1985

AVERAGE SALARY OF FULL-TIME FACULTY BY COLLEGE, RANK AND SEX

COLLEGE	INSTRUCTOR		ASSISTANT		ASSOCIATE		PROFESSOR	
	Male	Female	Male	Female	Male	Female	Male	Female
EDUCATION	--	--	31,839	26,505	38,035	37,249	50,374	--
ENGINEERING	29,073	--	33,346	29,910	39,402	32,637	48,038	--
HEALTH	31,161	22,821	30,208	26,952	38,574	36,739	47,554	44,122
LIBERAL ARTS	--	22,200	31,917	30,329	37,647	35,269	46,870	45,973
MANAGEMENT	28,451	31,681	31,167	30,113	39,389	38,312	46,809	50,518
MUSIC	--	--	34,533	--	37,924	36,866	38,933	--
SCIENCE	29,944	--	32,205	31,257	37,547	35,747	48,062	48,972

Average Salary by Rank:

Instructor	$26,319
Assistant	30,884
Associate	37,820
Professor	46,985
Average Salary	$38,391

FALL 1985 (10/1/86 Revision)

REGULAR FULL-TIME FACULTY, VISITING LECTURERS, PART-TIME ADJUNCTS

COLLEGE	DEPARTMENT	REGULAR (01) FACULTY	VISITING LECTURERS	PART-TIME ADJUNCTS
EDUCATION	Curriculum &	12	4	6
	Instruction	12	4	6
ENGINEERING	Chemical	9	2	0
	Civil	12	2	0
	Electrical	33	4	0
	Industrial Tech.	11	3	2
	Mechanical/Energy	29	2	0
	Plastics	12	2	0
		106	12	2
HEALTH	Clinical Lab.	9	1	3
	Nursing	21	2	0
	Physical Ed.	7	0	0
	Health	5	0	0
	Physical Therapy	6	1	0
		48	4	3
LIBERAL ARTS	Art	7	1	4
	English	32	3	10
	Law & Justice	6	1	2
	History	11	0	1
	Political Science	8	1	0
	Language	8	1	0
	Philosophy	5	2	2
	Psychology	17	1	9
	Sociology	8	0	3
		102	10	31
MANAGEMENT	Accounting	18	0	0
	Economics	15	3	6
	Management	25	1	4
		58	4	10
MUSIC	Academic Studies	8	6	0
	Performance	9	0	29
	Music Ed.	4	1	0
		21	7	29
SCIENCE	Biology	15	2	0
	Chemistry	25	3	0
	Earth Science	6	2	0
	Mathematics	40	12	0
	Physics	30	2	0
	Computer Science	18	7	0
		134	28	0
TOTAL		481	72	81

SPRING 1986 (10/1/86 Revision)

REGULAR FULL-TIME FACULTY, VISITING LECTURERS, PART-TIME ADJUNCTS

COLLEGE	DEPARTMENT	REGULAR FACULTY	VISITING LECTURERS	PART-TIME ADJUNCTS
EDUCATION	Curriculum &	12	0	5
	Instruction	12	0	5
ENGINEERING	Chemical	9	1	0
	Civil	12	2	0
	Electrical	33	3	0
	Industrial Tech.	11	1	2
	Mechanical/Energy	29	2	0
	Plastics	13	3	0
		107	12	2
HEALTH	Clinical Lab.	9	0	3
	Nursing	21	6	0
	Physical Ed.	7	0	0
	Health	5	0	0
	Physical Therapy	6	2	0
		48	8	3
LIBERAL ARTS	Art	7	3	0
	English	31	10	0
	Law & Justice	6	1	0
	History	11	0	0
	Political Science	7	0	0
	Language	8	1	0
	Philosophy	5	2	0
	Psychology	17	0	0
	Sociology	8	0	0
		100	17	0
MANAGEMENT	Accounting	20	0	0
	Economics	15	4	6
	Management	25	1	0
		60	5	6
MUSIC	Academic Studies	8	1	0
	Performance	9	0	29
	Music Ed.	4	1	0
		21	2	29
SCIENCE	Biology	15	0	0
	Chemistry	25	6	0
	Earth Science	6	0	0
	Mathematics	40	18	0
	Physics	29	1	0
	Computer Science	18	7	0
		133	30	0
TOTAL		469	74	45

FALL 1986 (10/1/86 Revision)

REGULAR FULL-TIME FACULTY, VISITING LECTURERS, PART-TIME ADJUNCTS

COLLEGE	DEPARTMENT	FULL-TIME (01)* PROF., ASSOC., ASSISTANTS, & INSTRUCTORS	VISITING** LECTURERS & ADJUNCTS (01)	VISITING LECTURERS + ADJUNCTS (03)
EDUCATION	Curriculum & Instruction	16	2	7
		16	2	7
ENGINEERING	Chemical	11	0	2
	Civil	13	0	2
	Electrical	34	5	3
	Mechanical/Energy	30	0	2
	Plastics	14	0	0
	Industrial Tech.	11	1	2
		113	6	11
SCIENCE	Biology	15	4	0
	Chemistry	25	2	0
	Mathematics	44	20	0
	Earth Science	6	1	0
	Physics	31	2	0
	Computer Science	19	5	0
		140	34	0
MANAGEMENT	Accounting	21	0	0
	Economics	17	1	5
	Management	25	5	0
	Marketing	7	0	1
		67	2	6
LIBERAL ARTS	Art	7	4	1
	English	32	3	8
	Law & Justice	7	0	2
	History	11	1	2
	Political Science	6	0	2
	Language	8	1	1
	Philosophy	5	2	4
	Psychology	16	3	9
	Sociology	7	2	3
		99	16	31
HEALTH	Clinical Lab.	10	0	0
	Nursing	21	0	5
	Physical Ed.	7	0	0
	Health	4	0	3
	Physical Therapy	6	0	1
		48	0	9
MUSIC	Academic Studies	8	0	6
	Performance	9	0	35
	Music Ed.	4	0	1
		21	0	42
TOTAL		504	60	106

* Does not include faculty members on leave.

** Includes Distinguished Visiting Professors.

TENURE ANALYSIS

RECENT TENURE HISTORY FOR FACULTY AND LIBRARIANS

DATE	PERCENT TENURED
Fall, 1976	81.0%
Fall, 1977	77.1%
Fall, 1978	76.1%
Fall, 1979	76.0%
Fall, 1980	75.3%
Fall, 1981	74.9%
Fall, 1982	76.0%
Fall, 1983	75.1%
Fall, 1984	70.7%
Fall, 1985	70.3%
Fall, 1986	66.5%

NUMBER AND PERCENT OF FACULTY TENURED BY COLLEGE

JULY 1, 1986

COLLEGE	NUMBER TENURED	PERCENT TENURED
ENGINEERING	66 of 107	61.68
SCIENCE	109 of 134	77.61
MANAGEMENT	32 of 63	50.79
LIBERAL ARTS	94 of 101	93.07
HEALTH	21 of 49	42.86
MUSIC	17 of 21	80.95
EDUCATION	7 of 11	63.64
TOTAL	346 of 486	71.19

PROMOTION AND TENURE*
FREQUENCY, BY COLLEGE AND RANK
1982 - 1986

FACULTY PROMOTIONS	1982	1983	1984	1985	1986
A) To Assistant:					
Education	0	0	0	0	0
Engineering	0	0	1	0	0
Health Professions	2	0	4	0	0
Liberal Arts	0	0	0	0	0
Management Science	0	0	2	0	0
Music	0	0	0	0	0
Pure & Applied Science	1	0	0	0	0
	3	0	7	0	0
B) To Associate:					
Education	1	0	0	0	0
Engineering	3	3	5	1	2
Health Professions	3	1	1	1	4
Liberal Arts	8	0	3	6	4
Management Science	2	2	1	2	0
Music	0	3	1	0	0
Pure & Applied Science	3	7	3	6	0
	20	16	14	16	10
C) To Full Professor					
Education	0	0	0	0	0
Engineering	5	3	4	3	1
Health Professions	0	1	1	1	2
Liberal Arts	2	2	3	3	3
Management Science	1	2	5	1	1
Music	1	1	0	1	0
Pure & Applied Science	3	4	2	3	4
	12	13	15	12	11
FACULTY TENURE:					
Education	0	0	0	0	0
Engineering	1	3	7	1	3
Health Professions	4	0	2	0	1
Liberal Arts	5	0	3	5	2
Management Science	2	1	1	3	1
Music	0	1	1	0	0
Pure & Applied Science	4	5	1	3	0
	16	10	15	12	7
LIBRARIAN PROMOTIONS:					
Librarian III to IV	0	1	0	0	0
Librarian II to III	0	0	0	1	1*
Librarian I to II	0	2	0	0	2
	0	3	0	1	3
LIBRARIAN/TENURE ONLY (No Promotions):	0	0	0	0	1

* Simultaneous promotion and tenure.

STUDENTS

NUMBER OF STUDENTS APPLIED, ACCEPTED, PREPAID & ENROLLED

	APPLIED	ACCEPTED	PREPAID	ENROLLED
1978				
Freshmen	4,983	3,138	1,781	1,766
Transfers	1,110	830	651	555
Readmits	317	281	254	183
TOTAL	6,410	4,249	2,686	2,504
1979				
Freshmen	5,237	3,255	1,813	1,728
Transfers	1,376	721	647	584
Readmits	375	273	260	239
TOTAL	6,988	4,249	2,747	2,551
1980				
Freshmen	5,748	2,904	1,932	1,915
Transfers	1,517	979	665	664
Readmits	341	276	225	231
TOTAL	7,606	4,159	2,822	2,810
1981				
Freshmen	6,326	2,968	2,296	2,122
Transfers	1,681	772	758	679
Readmits	355	242	240	224
TOTAL	8,362	3,982	3,292	3,025
1982				
Freshmen	6,486	3,016	2,312	2,088
Transfers	1,799	943	897	831
Readmits	401	260	256	236
TOTAL	8,686	4,219	3,465	3,155
1983				
Freshmen	5,809	2,850	1,927	1,874
Transfers	1,904	1,256	939	878
Readmits	415	331	286	282
TOTAL	8,128	4,437	3,152	3,034
1984				
Freshmen	5,588	2,599	2,001	1,943
Transfers	1,751	1,153	880	841
Readmits	410	348	311	288
TOTAL	7,749	4,100	3,192	3,072
1985				
Freshmen	5,622	2,749	1,800	1,760
Transfers	1,654	1,031	702	687
Readmits	419	359	315	303
TOTAL	7,695	4,139	2,817	2,750
1986				
Freshmen	5,052	2,578	1,638	1,622
Transfers	1,674	1,209	999	973
Readmits	442	365	326	266
TOTAL	7,168	4,152	2,963	2,861

AVERAGE S.A.T. SCORES

	VERBAL	MATH
Fall 1975		
U.L. Enrolled Freshmen	466	523
New England	437	471
National	434	472
Fall 1976		
U.L. Enrolled Freshmen	475	535
New England	435	472
National	431	472
Fall 1977		
U.L. Enrolled Freshmen	473	534
New England	N/A	N/A
National	429	470
Fall 1978		
U.L. Enrolled Freshmen	470	535
New England	433	468
National	429	468
Fall 1979		
U.L. Enrolled Freshmen	466	534
New England	431	465
National	427	467
Fall 1980		
U.L. Enrolled Freshmen	464	546
New England	426	466
National	424	466
Fall 1981		
U.L. Enrolled Freshmen	473	544
New England	425	463
National	424	466
Fall 1982		
U.L. Enrolled Freshmen	476	537
New England	428	464
National	426	467
Fall 1983		
U.L. Enrolled Freshmen	471	531
New England	430	465
National	425	468
Fall 1984		
U.L. Enrolled Freshmen	472	535
New England	434	469
National	426	471
Fall 1985		
U.L. Enrolled Freshmen	473.5	538.5
New England	436	473
National	426	472

MEDIAN FAMILY INCOME

	Fall 1980	Fall 1981	Fall 1982	Fall 1983	Fall 1984	Fall 1985
University of Lowell						
-Enrolled Freshmen	$21,600	$23,100	$26,000	$28,100	$29,900	$31,400
-Prospective Applicants	20,300	22,700	25,000	27,200	29,400	30,800
4 Year Public Colleges						
-Prospective Applicants	22,200	24,200	24,600	28,700	30,300	31,600
National: All Colleges						
-Prospective Applicants	22,200	24,100	26,800	29,000	28,800	30,100

UNIVERSITY OF LOWELL

1978 - 1981

ENROLLMENT STATISTICS

	Fall'78 (11/1)	Spring'79 (3/10)	Fall'79 (9/28)	Spring'80 (2/12)	Fall'80 (9/8)	Spring'81 (2/23)	Fall'81 (10/30)
UNDERGRADUATE (Day)							
Full Time	6,679	5,995	6,744	6,167	7,446	6,593	7,656
Part Time	187	207	239	232	260	330	370
Total # of Students	6,866	6,202	6,983	6,399	7,706	6,923	8,026
# of Undisclosed Majors	732	613	884	711	1,132	923	1,194
Total # of Credits	106,897	101,013	104,568	95,901	114,109	101,742	118,964
Total FTE (Credit/15)	7,126	6,734	6,971	6,363	7,607	6,783	7,931
GRADUATE (Day)							
Full Time	220	241	206	201	246	232	318
Part Time	481	498	500	503	446	514	449
Total # of Students	701	739	706	704	692	746	767
Total # of Credits	3,854	4,920	3,943	3,892	4,057	4,344	5,281
Total FTE (Credit/12)	321	410	329	324	338	364	440
UNIVERSITY ENROLLMENT (Day)							
Full Time	6,899	6,236	6,950	6,368	7,692	6,825	7,974
Part Time	668	705	739	735	706	844	819
FTE	7,447	7,144	7,300	6,717	7,945	7,147	8,371
FTE (Yearly Ave.)	7,296 (Ave)		7,008 (Ave)		7,546 (Ave)		

	Fall'78	Spring'79	Fall'79	Spring'80	Fall'80	Spring'81	Fall'81
CONTINUING EDUCATION							
Total # of Students (undergraduate)	3,944	3,757	4,193	3,861	4,572	4,161	4,984
Total # of Credits	20,946	19,284	21,331	18,514	22,611	19,866	24,112
Total FTE (Credit/15)	1,396	1,286	1,422	1,234	1,507	1,324	1,613
Total # of Students (graduate)	473	438	601	521	754	726	783
Total # of Credits	1,995	1,680	2,244	2,043	3,040	2,845	3,024
Total FTE (Credit/12)	166	140	187	170	253	237	267
UNIVERSITY ENROLLMENT CONTINUING EDUCATION							
# of Students (Credit Courses Only)	4,417	4,195	4,794	4,382	5,326	4,887	5,767
FTE	1,562	1,426	1,609	1,404	1,760	1,561	1,880
UNIVERSITY ENROLLMENT							
Total # Credit Students	11,984	11,136	12,483	11,485	13,724	12,556	14,562
FTE ##	9,009	8,570	8,909	8,121	9,705	8,708	10,251
Non-credit Students:	827	438	769	530	855	739	828
Special Programs (Seminar,Workshops)			704	1,023	914	1,407	1,061
TOTAL ALL STUDENTS							
	12,811	11,574	13,956	13,038	15,493	14,702	16,451

FTE based on credit courses only.

UNIVERSITY OF LOWELL

1982 - 1985

ENROLLMENT STATISTICS

	Spring'82 (3/83)	Fall'82 (10/1)	Spring'83 (2/83)	Fall'83 (9/30)	Spring'84 (2/27)	Fall'84 (10/16)	Spring'85 (3/85)
UNDERGRADUATE (Day)							
Full Time	7,003	8,220	7,360	8,463	7,474	8,448	7,517
Part Time	353	372	368	395	342	386	339
Total # of Students	7,356	8,592	7,728	8,858	7,816	8,834	7,856
# of Undisclosed Majors	1,000	1,257	1,034	1,301	906	1,195	896
Total # of Credits	110,112	127,666	115,254	131,930	114,127	130,298	114,512
Total FTE (Credit/15)	7,341	8,511	7,684	8,795	7,608	8,687	7,634
GRADUATE (Day)							
Full Time	290	380	382	507	453	273	
Part Time	473	556	576	682	564	1,207	
Total # of Students	763	936	958	1,189	1,017	1,480	1,544
Total # of Credits	4,754	6,336	6,348	7,974	7,098	9,435	10,062
Total FTE (Credit/12)	396	528	529	665	592	786	839
UNIVERSITY ENROLLMENT (Day)							
Full Time	7,293	8,600	7,742	8,970	7,927	8,721	
Part Time	826	928	944	1,077	906	1,593	
HEADCOUNT		9,528	8,686	10,047	8,833	10,314	9,400
FTE	7,737	9,039	8,213	9,460	8,200	9,473	8,473
FTE (Yearly Ave.)	8,054 (Ave)	8,626 (Ave)		8,830 (Ave)		8,973 (Ave)	

	Spring'82	Fall'82	Spring'83	Fall'83	Spring'84	Fall'84	Spring'85
CONTINUING EDUCATION							
Total # of Students (undergraduate)	4,535	5,114	4,535	5,005	4,332	4,770	4,322
Total # of Credits	21,306	25,665	21,240	22,950	19,653	21,900	19,188
Total FTE (Credit/15)	1,420	1,711	1,416	1,530	1,310	1,460	1,279
Total # of Students (graduate)	864	906	827	925	890	710	735
Total # of Credits	3,400	3,498	3,443	3,597	3,768	2,760	2,895
Total FTE (Credit/12)	283	292	287	300	314	230	241
UNIVERSITY ENROLLMENT CONTINUING EDUCATION							
# of Students (Credit Courses Only)	5,399	6,020	5,362	5,930	5,222	5,480	5,057
FTE	1,703	2,003	1,703	1,839	1,624	1,690	1,520
UNIVERSITY ENROLLMENT							
Total # Credit Students	13,518	15,548	14,048	15,977	14,055	15,794	14,457
FTE ##	9,440	11,042	9,916	11,290	9,824	11,163	9,993
Non-credit Students:	724	856	525	992	491	792	696
Special Programs (Seminar,Workshops)	1,161	806	1,184	918	1,098	818	604
TOTAL ALL STUDENTS	15,403	17,210	15,757	17,887	15,644	17,404	15,757

FTE based on credit courses only.

UNIVERSITY OF LOWELL

ENROLLMENT STATISTICS

	Fall'85	Spring'86	Fall'86
UNDERGRADUATE (Day)			
Full Time	8239	7165	7808
Part Time	387	384	490
Total # of Students	8626	7549	8298
# of Undisclosed Majors	1264	966	
Total # of Credits	124388	100085	119683
Total FTE (Credit/15)	8293	7339	7979
GRADUATE (Day)			
Full Time	227	385	339
Part Time	1420	1887	2298
Total # of Students	1647	2272	2637
Total # of Credits	10890	13362	16652
Total FTE (Credit/12)	908	1114	1388
UNIVERSITY ENROLLMENT (Day)			
Full Time	8466	7550	8147
Part Time	1807	2271	2788
HEADCOUNT	10273	9821	10935
FTE	9201	8453	9367
FTE (Yearly Ave.)	(8827)		

	Fall'85	Spring'86	Fall'86
CONTINUING EDUCATION			
Total # of Students (Undergraduate)	4223	3614	3695
Total # of Credits	19004	16197	
Total FTE (Credit/15)	1267	1080	1109
Total # of Students (Graduate)	730	(See Day	(See Day
Total # of Credits	2847	Graduate	Graduate
Total FTE (Credit/12)	237	Programs)	Programs)
UNIVERSITY ENROLLMENT CONTINUING EDUCATION			
# of Students (Credit Courses Only)	4953	3614	3695
FTE	1504	1080	1109
UNIVERSITY ENROLLMENT			
Total # Credit Students	15226	13435	14630
FTE ##	10705	9533	10476
Non-Credit Students			
Special Programs (Seminar, Workshops)			
TOTAL ALL STUDENTS			

FTE based on credit courses only.

UNIVERSITY OF LOWELL

ENROLLMENT STATISTICS 1975-1986

UNDERGRADUATE HEADCOUNT

(Day School Only)

	Full-Time	Part-Time	Total
Fall'75	6,400	20	6,420
Fall'76	6,606	20	6,806
Fall'77	6,485	97	6,582
Fall'78	6,679	187	6,866
Fall'79	6,744	239	6,983
Fall'80	7,446	260	7,706
Fall'81	7,656	370	8,026
Fall'82	8,220	372	8,592
Fall'83	8,463	395	8,858
Fall'84	8,448	385	8,834
Fall'85	8,239	387	8,626
Fall'86	7,808	490	8,298

FALL 1985

UNDERGRADUATE ENROLLMENT STATISTICS - ETHNIC ORIGIN

(Full & Part-Time Day School Only)

COLLEGE	BLACK	AM.INDIAN	ASIAN	HISPANIC	CAPE VERDIAN	CAUCASIAN	TOTAL
ENGINEERING	4	1	34	11	0	2927	3004
SCIENCE	1	0	10	3	0	1190	1234
MANAGEMENT	7	2	8	4	0	1763	1789
HEALTH	2	0	3	1	0	656	662
LIBERAL ARTS	6	0	7	4	0	1669	1688
MUSIC	1	0	0	1	0	246	249
TOTAL	34	5	111	37	1	8240	8834

FALL 1985

GRADUATE ENROLLMENT STATISTICS-ETHNIC ORIGIN DAY PROGRAM

COLLEGE	BLACK	AM.INDIAN	ASIAN	HISPANIC	CAPE VERDIAN	CAUCASIAN	TOTAL
EDUCATION	1	0	4	1	0	207	213
ENGINEERING	2	0	18	3	0	434	457
HEALTH	2	0	1	0	0	114	117
LIBERAL ARTS	1	0	1	0	0	46	48
MANAGEMENT	0	0	6	2	0	273	281
MUSIC	0	0	0	0	0	46	46
SCIENCE	2	2	23	0	0	458	485
TOTAL	7	2	53	6	0	1578	1647

FALL 1984

CONTINUING EDUCATION -- ETHNIC ORIGIN

DEPARTMENT	BLACK	AM. INDIAN	ASIAN	HISPANIC	CAUCASIAN	TOTAL
BUSINESS (all)	9	6	6	4	506	541
CIVIL ENGINEERING TECHNOLOGY	1	0	0	0	24	25
APPLIED CHEMISTRY	0	0	0	0	10	10
COMPUTER SCIENCE	4	1	3	2	85	97
ELECTRONIC ENG. TECHNOLOGY	1	1	15	1	275	298
INDUSTRIAL TECH.	0	0	1	1	54	56
CRIMINAL JUSTICE	0	0	0	0	19	19
APPLIED MATHEMATICS	2	0	1	0	41	45
MECHANICAL ENG. TECHNOLOGY	0	0	1		159	167
MEDICAL TECHNOLOGY	0	0	0		0	0
NURSING	0	0	0	0	44	44
LIBERAL ARTS	0	0	0	1	18	19
TOTAL	17	8	27	9	1235	1321
UNDECLARED	37	23	91	37	3188	3428
TOTAL	54	31	118	46	4423	4748

UNIVERSITY BUDGETED PROGRAMS

TOTAL ENROLLMENTS[1] (Headcount)

"NEW STUDENTS"[2] (Headcount) (Excludes-SP,SC,EOP)*

SEMESTER	UNDERGRADUATE	GRADUATE	TOTAL	FRESHMEN	TRANSFER	READMIT
Fall 1976	6626	679	2335	1485	600	250
Spring 1977	5846	755				
Fall 1977	6766	829	2362	1544	568	250
Spring 1978	6127	816				
Fall 1978	6866	701	2504	1766	555	183
Spring 1979	6202	743				
Fall 1979	6920	715	2511	1728	584	239
Spring 1980	6399	690				
Fall 1980	7706	692	2822	1932	665	225
Spring 1981	6923	746				
Fall 1981	8026	767	3025	2122	679	224
Spring 1982	7356	763				
Fall 1982	8592	936	3155	2088	831	236
Spring 1983	7728	958				
Fall 1983	8858	1189	3034	1874	878	282
Spring 1984	7816	1017				
Fall 1984	8834	1480	3076	1943	845	288
Spring 1985	7851	1540	**421	36	240	145
Fall 1985	8626	1647	2750	1760	687	303
Spring 1986	7549	2247				
Fall 1986	8298	2637	2861	1622	973	266

1 Source: Academic Affairs

2 Source: Admissions

* SP=Special
SC=Second Chance
EOP=Educational Opportunity Program

**Includes 5 EOP Students

UNIVERSITY OF LOWELL

CONTINUING EDUCATION - ENROLLMENT SUMMARIES

September, 1985 - September, 1986

	Student Count	Course Count	Section Count	Class Average
I. EVENING (Undergraduate)				
Fall Semester	4,223	6,391	293	21.8
Spring Semester	3,614	5,399	265	20.4
1st Summer Session	1,875	1,985	91	21.8
2nd Summer Session	1,220	1,222	47	26.0
Totals	10,932	14,997	696	21.5
II. DAY (Undergraduate)				
1st Summer Session	2,013	3,035	128	23.7
2nd Summer Session	992	1,420	59	23.8
Totals	3,005	4,455	187	23.8
III. GRADUATE				
Fall Evening	766	955	53	18.0
Total Summer Sessions	943	1,050	64	16.4
Totals	1,709	2,005	117	17.1
TOTAL IN CREDIT SESSIONS	15,646	21,457	1,000	21.5
IV. NON-CREDIT PROGRAMS				
Fall Community Service	752	827	47	17.6
Spring Community Service	594	653	43	15.2
Summer Pre-College	134	139	8	17.4
Totals	1,480	1,619	98	16.5
V. SPECIAL PROGRAMS				
Total (from attached)	1,821			
GRAND TOTAL STUDENT COUNT	18,947			

FALL 1986

CONTINUING EDUCATION

Total # of Students (Undergraduate)	3,695
Total # of Credits	16,635
Total FTE (Credit/15)	1,109

#FTE based on credit courses only.

SPECIAL PROGRAMS

Fall 1985		Enrollment
Sept.-Dec.	Wang Laboratories 69.371 Operations Management I 67.362 Business Law	 28 28
Sept.-Dec.	Applied Music (6 credit, 17 non-credit)	23
Fall 1985	Materials Management Education	43
Fall 1985	Nursing Series	107
Sept. 8-Dec. 15	Advanced Life Support	21
Sept. 11-13	Systems Analysis and Design	8
Sept. 16-17	Blow Molding	11
Sept. 17-20	Fundamentals of Plastics	20
Sept. 23-27	Extrusion (Norwalk, CT)	16
Sept. 25-27	Advances in Compounding	11
Sept. 25-27	Polyurethanes	16
Sept. 30-Oct. 2	Fundamentals of Mold and Part Design	24
Sept. 30-Oct. 4	Fundamentals and Computer Aid in Mold Design (Bedford/Lowell)	7
Oct. 1-2	Project Management	10
Oct. 2-4	Computer Aided Mold and Part Design (Bedford, MA)	8
Oct. 7-10	Injection Molding (Providence, RI)	24
Oct. 7-11	Testing and Quality Control	9
Oct. 11	Injection Molding Process System and Instrumentation	12
Oct. 14-15	Injection Molding	13
Oct. 15-16	Printed Wiring	17
Oct. 16-18	Advanced Engineering Design with Plastics	16
Oct. 17-18	Purchasing Essentials	15
Oct. 31	Maintenance	21

Fall 1985 (Continued)		Enrollment
Nov. 4-5	Construction Project Management	20
Nov. 4-5	Statistical Quality Control	12
Nov. 5-6	Roofing and Roof Maintenance	85
Nov. 14-15	Personal Computers for Software	10
Nov. 15-16	Extrusion (Ft. Lauderdale, FL)	10
Nov. 18-20	Fundamentals of Plastics (Ft. Lauderdale)	13
Nov. 19	Managing the Data Processing Project	16
Dec. 2-3	Injection Molding (Los Angeles)	10
Dec. 4-6	NUCEA	115
Dec. 5-7	Fundamentals of Plastics (Los Angeles)	10
	TOTAL	809

Spring 1986		
Spring 1986	Nursing Series	110
Jan.-April	Applied Music (20 credit, 13 non-credit)	33
Jan.-April	Wang Laboratories	
	92.209 Introduction to Basic	17
	69.321 Marketing Principles	20
Jan. 22-23	Printed Wiring	15
Jan. 22-23	Sheet Extrusion Line - Turnkey Operation (St. Augustine, FL)	23
March 1986	Materials Management	23
March-May	Preparatory and Jazz Ensemble	48
March 13-14	Construction Project Management	23
March 17-19	Cardiovascular - Hewlett Packard	17
March 19-20	Food and Drug Administration	27

Spring 1986 (Continued)

March 20-21	Hazardous Toxic Waste Management	24
March 31/April 1	Roof Maintenance	90
April 1-4	Fundamentals of Plastics	22
April 7-11	Fundamentals and Computer Aid in Mold Design	2
April 7-9	Fundamentals of Mold and Part Design	22
April 9-11	Computer Aided Mold and Part Design (Bedford, MA)	7
April 16-17	Testing and Quality Control	9
April 21-22	Extrusion - Special	6
April 29-30	Essentials of the Purchasing Function	13
	TOTAL	551

Summer 1986		Enrollment
May-June	Wang Laboratories 69.331 Busines Finance	16
May-August	Applied Music (10 credit)	10
May 8	Maintenance Planning and Scheduling	7
May 12-16	Extrusion - Special (Norwalk, CT)	9
May 19-22	Injection Molding - Special (Providence, RI)	20
May 22	Maintenance Housekeeping	7
June 5	Preventive Maintenance	5
June 5-6	Thermoplastic Elastomers	6
June 9-13	Testing and Quality Control	8
June 30-July 19	Kodaly	15
June 30-July 2	Advance Engineering Design with Plastics	6
June 30-July 3	The Collaborative Classroom	39
June 30-July 3	Newspaper	11

Summer 1986 (Continued)		Enrollment
July 7-11	Economic Education	5
July 7-11	Reading Institute 86	39
July 7-11	Microcomputer in the Classroom	24
July 8-11	Fundamentals of Plastics	13
July 9-11	Advances in Compounding	6
July 9-11	Polyurethanes	2
July 14-18	Injection Molding	34
July 14-18	Extrusion	10
July 14-18	Teacher Morale	11
July 14-25	Orff - Music for Children - Level I, II, III	33
July 21-22	Blow Molding	15
July 21-25	Teaching and Learning about Aging	5
July 28-29	Injection Molding - Special	7
July 28 - Aug. 1	Teaching about Peace	8
July 30-Aug. 1	Fundamentals of Mold and Part Design	7
August	Writing Workshop	30
August 11-15	Polaroid - Plastics Seminar	33
August 17-28	International Student Program	20
	TOTAL	461
GRAND TOTAL IN SPECIAL PROGRAMS		1821

UNDERGRADUATE MAJORS (FULL-TIME AND PART-TIME) BY COLLEGE AND DEPARTMENT
(Day School Only)

	Fall 9/30/83	Spring 2/27/84	Fall 10/22/84	Spring 3/1/85	Fall 10/4/85	Spring 3/4/86
COLLEGE OF EDUCATION						
Curriculum & Instruction	22	20	16	13	0	0
COLLEGE OF ENGINEERING						
Civil Engineering	323	291	331	288	340	276
Chemical Engineering	283	233	241	213	178	146
Electrical Engineering	1,121	944	1,203	1,021	1,167	918
Industrial Technology	295	282	303	291	315	289
Mechanical Engineering	652	522	672	571	732	548
Energy Engineering	82	69	69	57	53	51
Plastics Engineering	219	224	225	207	219	206
Track II & Undeclared						100
	2,975	2,565	3,044	2,648	3,004	2,534
COLLEGE OF HEALTH PROFESSIONS						
Nursing	297	292	271	260	225	215
Clinical Lab. Science	99	98	90	86	78	70
Physical Therapy	198	194	190	200	217	216
Health Education	46	51	43	49	42	53
Health Service Admin.	21	21	8	8	1	0
Undeclared Health	109	62	104	58	99	77
	770	718	706	661	662	631
COLLEGE OF LIBERAL ARTS						
Art	106	88	102	91	73	68
English	123	138	143	137	148	130
History	44	44	56	50	48	57
Political Science	97	93	114	106	97	101
American Studies	6	7	11	7	9	8
Law and Justice	274	243	286	257	290	265
Language	27	26	34	56	48	41
Psychology	199	203	226	217	223	211
Philosophy	5	5	6	8	5	4
Sociology	39	48	46	41	31	31
Undeclared	733	520	657	511	716	531
	1,626	1,415	1,681	1,487	1,688	1,447

UNDERGRADUATE MAJORS (FULL-TIME AND PART-TIME) BY COLLEGE AND DEPARTMENT
(Day School Only)

	Fall 9/30/83	Spring 2/27/84	Fall 10/22/84	Spring 3/1/85	Fall 10/4/85	Spring 3/4/86
COLLEGE OF MANAGEMENT SCIENCE						
Accounting	401	366	417	366	391	377
Economics	32	29	32	21	23	19
Management	1,097	1,084	1,094	1,065	1,040	877
Marketing						135
Industrial Management	34	29	33	36	49	54
Undeclared	306	211	288	214	284	237
	1,870	1,719	1,864	1,702	1,789	1,700
COLLEGE OF MUSIC						
Music/Jazz				6	1	1
Music - General B.A.	10	10	11	0	0	0
Performance	26	21	13	12	11	13
Music Education	34	34	39	37	29	34
Music Theory/Composition	5	6	4	4	3	5
Musicology	207	168	181	123	185	143
Undeclared	0	0	6	4	3	5
Music Industry	0	0	0	29	18	15
Music Recording	0	0	0	12	9	14
	282	239	254	219	249	230
COLLEGE OF PURE AND APPLIED SCIENCE						
Biology	127	119	114	121	130	105
Chemistry	52	45	48	57	38	33
Computer Science	562	513	599	516	534	440
Earth Science/Meteor.	104	84	104	88	100	77
Mathematics	190	180	164	153	178	150
Physics/Applied Physics	60	54	54	39	59	53
Radiological Science	41	36	39	39	30	33
Undeclared	154	112	147	108	165	116
	1,290	1,143	1,269	1,121	1,234	1,007
GRAND TOTALS	8,835	7,819	8,834	7,851	8,626	7,549

GRADUATE MAJORS (FULL-TIME AND PART-TIME) BY COLLEGE AND DEPARTMENT
Day School Only

	Fall 9/30/83	Spring 2/27/84	Fall 10/22/84	Spring 3/1/85	Fall 10/4/85	Spring 2/28/86
COLLEGE OF EDUCATION						
Educational Administration	21	32	34	29	42	49
Curriculum & Instruction	26	27	48	55	110	47
Initial Certification						78
Elementary Education	87	81	23	18	---	
Reading & Language	20	22	51	79	61	79
	154	162	156	181	213	253
COLLEGE OF ENGINEERING						
Civil Engineering	49	57	71	78	68	65
Chemical Engineering	35	32	40	44	33	39
Electrical Engineering	23	31	43	41	60	271
Paper Engineering	4	2	1	1	1	---
Mechanical Engineering	54	52	53	58	60	79
Energy Engineering	25	28	31	26	25	29
Plastics Engineering	109	108	133	143	120	161
Computer Engineering	37	36	34	40	39	108
Environmental Studies	32	31	39	31	49	47
Systems Engineering	2	1	2	3	3	16
	370	378	416	465	458	815
COLLEGE OF HEALTH						
Nursing	74	68	84	79	89	102
Health Service Admin.	3	13	19	23	28	37
	77	81	103	102	117	139
COLLEGE OF LIBERAL ARTS						
Psychology	42	35	34	39	47	49
COLLEGE OF MANAGEMENT						
Business Administration	191	12	284	293	281	279
COLLEGE OF MUSIC						
Performance	21	19	22	21	29	23
Music Education	15	14	12	11	14	11
Music Theory/Composition	1	2	3	5	3	1
Musicology	9	7	5	3	1	4
	46	42	42	40	47	39
COLLEGE OF SCIENCE						
Biology	32	29	28	25	18	52
Chemistry	40	45	56	47	71	65
Earth Science/Meteorology	1	2	2	2	0	0
Mathematics	68	73	107	112	125	261
Physics/Applied Physics	33	30	36	46	47	38
Polymer Science	28	28	42	39	41	44
Radiological Health Physics	60	60	61	58	64	59
Computer Science	37	42	80	91	118	129
	307	308	412	420	484	698
GRAND TOTALS	1187	1018	1447	1,540	1647	2272

OFFICE OF INFORMATION SYSTEMS

UNDERGRADUATE

STUDENT CREDIT HOURS

Based on grades given-excluding W's, X's, Y's*
(Number of courses offered)
(Number of students served)

FALL 1985

	cr. hr.	(class)#	(students)##	Ave.# student/class
EDUCATION				
Educational Foundations (1)**	264	(3)	(88)	(29.3)
College Sub-Total	264	(3)	(88)	
Average Class Size			29.3	
Average cr.hrs./class			88.0	
ENGINEERING				
Civil Eng. (14)	2366	(34)	(1030)	(30.2)
Chemical Eng. (10)	825	(21)	(341)	(16.2)
Electrical Eng. (16)	7562	(110)	(3830)	(34.8)
Industrial Tech. (20)	2712	(54)	(1274)	(23.5)
Mechanical Eng. (22)	4343	(85)	(2374)	(27.9)
Nuclear Eng. (24)	201	(11)	(103)	(9.3)
Plastics Eng. (26)	1530	(40)	(881)	(22.0)
Interdisciplinary C. (25)	2749	(20)	(2064)	(103.2)
College Sub-Total	22288	(375)	(9523)	
Average Class Size			25.3	
Average cr.hrs/class			59.4	
HEALTH PROFESSIONS				
Nursing (33)	1433	(29)	(459)	(15.8)
Clinical Lab.Sci.(35)	1610	(32)	(793)	(24.7)
Medical Tech. (36)	593	(22)	(275)	(12.5)
Physical Therapy (34)	1531	(23)	(687)	(29.8)
Health Education (31)	393	(6)	(97)	(16.1)
Health Serv. Adm.(32)	0	(0)	(0)	(0.00
Interdisciplinary Courses (30)	756	(5)	(252)	(50.4)
Physical Ed. (38&39)	2729	(94)	(2676)	(28.4)
College Sub-Total	9045	(211)	(5239)	
Average Class Size			24.8	
Average Class Excluding Phy.Ed.			21.9	
Average cr.hrs./class			42.9	
Average cr.hrs./class Excluding Phy.Ed.			54.0	

FALL 1985

	cr.hr.	(class) #		(students) ##	Ave.# student/class
MANAGEMENT SCIENCE					
Accounting (60)	3990	(52)		(1478)	(28.4)
Economics (64)	6867	(56)		(2301)	(41.0)
Management (66)	6525	(68)		(2296)	(33.7)
College Sub-Total	17382	(176)		(6075)	
Average Class Size			34.5		
Average cr.hrs./class			98.7		
LIBERAL ARTS					
Art (57&58)	2142	(41)		(707)	(17.2)
English (42)	9219	(132)		(3229)	(24.4)
History (43)	3666	(32)		(1226)	(38.3)
Political Science (46)	3006	(28)		(1002)	(35.7)
American Studies (40)	18	(3)		(6)	(2.0)
Law & Justice (44)	1455	(17)		(485)	(28.5)
Language (50 to 56)	2211	(46)		(747)	(16.2)
Psychology 47)	7353	(43)		(2475)	(57.5)
Philosophy (45)	2070	(15)		(690)	(46.0)
Sociology 48)	3228	(28)		(1077)	(38.4)
College Sub-Total	34368	(385)		(11644)	
Average Class Size			30.2		
Average cr.hr./class			89.2		
MUSIC					
Performance (72,75,76)	1622	(91)		(1168)	(12.8)
Music Ed. (73,77	300	(12)		(89)	(7.4)
Music Theory/Comp(71)	1374	(30)		(463)	(15.4)
Music Hist.& Lit.(74)	426	(8)		(145)	(18.1)
Music/Industry (77)	99	(4)		(27)	(6.7)
Recording Tech. (78)	138	(5)		(45)	(9.0)
College Sub-Total	3959	(150)		(1937)	
Average Class Size			12.9		
Average cr.hr./class			26.3		

FALL 1985

	cr.hr.	(class)#		(students)##	Ave.# student/class
PURE & APPLIED SCIENCE					
Computer Science (91)	2752	(46)		(1029)	(22.3)
Biology (81,82,83)	4068	(70)		(1868)	(26.6)
Chemistry (84,97)	5418	(129)		(3543)	(27.4)
Earth Sci. (87,88,89,93)	1441	(29)		(583)	(20.1)
Mathematics (92)	16813	(170)		(5040)	(29.6)
Physics (80,95,96)	7051	(178)		(5052)	(28.3)
Radiological Health (98)	215	(9)		(78)	(8.6)
College Sub-Total	37758	(631)		(17193)	
Average Class Size			27.2		
Average cr.hrs./class			59.8		
Aerospace Sub-Total(29)	85	(7)		(49)	
Coop.Ed./Cont.Matric(00)	138	(4)		(159)	
UNIVERSITY TOTAL (excluding Aerospace & Coop.Ed./Cont. Matric)	125139	(1950)		(54232)	
Average Class Size			27.8		
Average cr.hrs./class			64.1		

* Courses are allocated to Departments according to the course prefixes which appear in the University Catalogue, not according to the Department of the faculty member teaching the course.
** Numbers indicate course prefixes in the University Catalogue.
# Number of classes and /or sections held, total.
Total number of students enrolled in all classes and sections.

OFFICE OF INFORMATION SYSTEMS

UNDERGRADUATE

STUDENT CREDIT HOURS

Based on grades given-excluding W's, X's, Y's*
(Number of courses offered)
(Number of students served)

SPRING 1986

	cr. hr.	(class)#		(students)##	Ave.# student/class
EDUCATION					
Educational Foundations (1)**	459	(5)		(153)	(30.6)
College Sub-Total	459	(5)		(153)	
Average Class Size			30.6		
Average cr.hrs./class			91.8		
ENGINEERING					
Civil Eng. (14)	1762	(35)		(815)	(23.2)
Chemical Eng. (10)	626	(17)		(274)	(16.1)
Electrical Eng. (16)	6313	(105)		(3019)	(28.7)
Industrial Tech. (20)	2182	(49)		(1035)	(21.1)
Mechanical Eng. (22)	4417	(77)		(2226)	(28.9)
Nuclear Eng. (24)	180	(5)		(58)	(11.6)
Plastics Eng. (26)	1629	(38)		(697)	(18.3)
Interdisciplinary(25)	1433	(9)		(950)	(105.5)
College Sub-Total	17539	(335)		(9074)	
Average Class Size			27.0		
Average cr.hrs/class			52.3		
HEALTH PROFESSIONS					
Nursing (33)	2021	(38)		(714)	(18.7)
Clinical Lab.Sci.(35)	1364	(27)		(650)	(24.0)
Medical Tech. (36)	680	(28)		(320)	(11.4)
Physical Therapy (34)	1623	(16)		(480)	(30.0)
Health Education (31)	318	(4)		(61)	(15.2)
Health Serv. Adm.(32)	0	(0)		(0)	(0.0)
Interdisciplinary Courses (30)	757	(6)		(266)	(44.3)
Physical Ed. (38&39)	1712	(62)		(1853)	(29.8)
College Sub-Total	8475	(181)		(4344)	
Average Class Size			24.0		
Average Class Excluding Phy.Ed.			20.9		
Average cr.hrs./class			46.8		
Average cr.hrs./class Excluding Phy.Ed.			56.8		

SPRING 1986

	cr.hr.	(class)#		(students)##	Ave.# student/class
MANAGEMENT SCIENCE					
Accounting (60)	3966	(44)		(1368)	(31.0)
Economics (64)	5142	(56)		(1837)	(32.8)
Management (66)	4989	(67)		(1729)	(25.8)
College Sub-Total	14097	(167)		(4934)	
Average Class Size			29.5		
Average cr.hrs./class			84.4		
LIBERAL ARTS					
Art (57&58)	1908	(40)		(663)	(16.5)
English (42)	7683	(131)		(2646)	(20.1)
History (43)	3033	(32)		(1011)	(31.5)
Political Science (46)	2520	(28)		(861)	(30.75)
American Studies (40)	3	(1)		(1)	(1.0)
[illegible] & Justice (44)	1557	(16)		(519)	(32.4)
Language (50 to 56)	1908	(40)		(663)	(16.5)
Psychology (47)	4416	(44)		(1508)	(34.2)
Philosophy (45)	1947	(17)		(651)	(38.2)
Sociology (48)	2601	(28)		(892)	(31.8)
Interdisciplinary Course (59)	9	(2)		(3)	(1.5)
College Sub-Total	27576	(379)		(9418)	
Average Class Size			24.8		
Average cr.hr./class			72.7		
MUSIC					
Performance (72,75,76)	659	(65)		(534)	(8.2)
Music Ed. (73,77	359	(14)		(84)	(6.0)
Music Theory/Comp(71)	729	(24)		(309)	(12.8)
Music Hist.& Lit.(74)	396	(5)		(135)	(27.0)
Music/Industry (77)	96	(4)		(17)	(4.25)
Recording Tech.(78)	204	(5)		(63)	(12.6)
College Sub-Total	2443	(117)		(1142)	
Average Class Size			9.76		
Average cr.hr./class			20.8		

SPRING 1986

	cr.hr.	(class)#		(students)##	Ave.# student/class
PURE & APPLIED SCIENCE					
Computer Science (91)	2337	(38)		(856)	(22.5)
Biology (81,82,83)	3097	(64)		(2715)	(42.4)
Chemistry (84,97)	4456	(124)		(2901)	(23.3)
Earth Sci. (87,88,89,93)	1233	(28)		(473)	(16.8)
Mathematics (92)	13203	(148)		(4179)	(28.2)
Physics (80,95,96)	4237	(124)		(2715)	(21.8)
Radiological Health (98)	248	(11)		(87)	(7.9)
College Sub-Total	28811	(537)		(13926)	
Average Class Size			25.9		
Average cr.hrs./class			53.65		
Aerospace Sub-Total(29)	62	(14)		(120)	
Coop.Ed./Cont.Matric(00)	108	(5)		(52)	
UNIVERSITY TOTAL (excluding Aerospace & Coop.Ed./Cont. Matric)	108738	(1745)		(44465)	
Average Class Size			25.4		
Average cr.hrs./class			62.3		

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Total number of students enrolled in all classes and sections.

OFFICE OF INFORMATON SYSTEMS

GRADUATE

STUDENT CREDIT HOURS
Based on grades given-excluding W's, X's, Y's
(Number of courses offered)
(Number of students served)

FALL 1985

	cr. hr.	(class)#	(students)##	Ave.# student/class
EDUCATION				
Education Foundations(1)**	30	3	11	(3.6)
Curriculum & Instruction(4)	1654	34	409	(12.0)
Education Administration(5)	195	10	64	(6.4)
Reading and Language(6)	138	10	46	(4.6)
Computer Literacy(7)	63	4	21	(5.2)
College Sub-Total	2080	61	551	
Average Class Size		9.0		
Average Cr.Hrs/Class		34.0		
ENGINEERING				
Computer Eng.(12)	3	1	1	(1.0)
Chemical Eng.(10)	331	14	123	(8.7)
C[illegible]l Eng.(14)	468	13	151	(13.7)
E[illegible]ironmental Sci.(18)	165	5	58	(11.6)
Electrical Eng.(16&28)	693	22	224	(10.1)
Material Sci.(25)	45	2	18	(9.0)
Nuclear Eng.(24)	173	14	86	(6.1)
Mechanical Eng.(22)	319	13	111	(8.5)
Plastics Eng.(26)	992	30	389	(12.9)
College Sub-Total	3189	114	1161	
Average Class Size		10.1		
Average Cr.Hr./Class		27.9		
HEALTH PROFESSIONS				
Interdisciplinary Courses(30)	69	1	23	(23.0)
Nursing(33)	412	18	156	(8.6)
Health Service Adm.(32)	273	7	91	(13.0)
College Sub-Total	754	26	270	
Average Class Size		10.3		
Average Cr.Hr./Class		29.0		
MANAGEMENT SCIENCE				
Accounting(60)	339	5	113	(22.6)
Economics(64)	162	3	54	(18.0)
Management(66)	771	13	260	(20.0)
[illegible]llege Sub-Total	1272	21	427	
[illegible]verage Class Size		20.3		
Average Cr.Hrs./Class		60.5		

GRADUATE - FALL 1985

	cr.hr.	(class)#	(students)##	ave.# student/class
MUSIC				
Music Theory/Composition(71)	54	3	18	(6.0)
Performance(72)	46	10	15	(1.5)
Music Education(73)	24	3	8	(2.6)
Music History/Literature(74)	48	3	17	(5.6)
Conducting/Jazz(75&76)	78	9	33	(3.6)
College Sub-Total	250	28	91	
Average Class Size		3.2		
Average Cr.Hrs./Class		8.9		
PURE AND APPLIED SCIENCE				
Biology(81)	153	12	60	(5.0)
Chemistry(84)	475	13	159	(12.2)
Polymer Science(97)	440	9	179	(19.8)
Mathematics(92)	681	18	231	(12.8)
Computer Science(91)	978	33	367	(11.1)
Physics(80,95,96)	406	19	154	(8.1)
Radiological Health(98)	357	11	140	(12.7)
College Sub-Total	3490	115	1290	
Average Class Size		11.2		
Average Cr.Hrs./Class		30.3		
LIBERAL ARTS				
Psychology(47)	255	7	85	(12.1)
College Sub-Total	255	7	85	
Average Class Size		12.1		
Average Cr.Hrs./Class		36.4		
Continued Matriculation(00)				
UNIVERSITY TOTAL	11290	372	3875	
Average Class Size		10.4		
Average Cr.Hrs./Class		30.3		

OFFICE OF INFORMATON SYSTEMS

GRADUATE

STUDENT CREDIT HOURS
Based on grades given-excluding W's, X's, Y's
(Number of courses offered)
(Number of students served)

SPRING 1986

	cr. hr.	(class)#	(students)##	Ave.# student/class
EDUCATION				
Education Foundations(1)**	120	4	40	(10.0)
Elementry Education(2)	911	21	189	(9.0)
Curriculum & Instruction(4)	168	12	54	(4.5)
Education Administration(5)	213	12	71	(5.9)
Reading and Language(6)	207	13	69	(5.3)
Research Methods(7)	81	6	23	(4.8)
College Sub-Total	1700	68	446	
Average Class Size		6.5		
Average Cr.Hrs/Class		25.0		
ENGINEERING				
Chemical Eng.(10)	286	18	112	(6.2)
Paper Eng.(11)	6	2	5	(2.5)
Civil Eng.(14)	435	14	140	(10.0)
Environmental Sci.(18)	213	11	70	(6.3)
Electrical Eng.(16&28)	2046	45	678	(15.0)
Industrial Tech.(25)	86	4	34	( )
Nuclear Eng.(24)	189	11	75	(6.8)
Mechanical Eng.(22)	411	14	133	(9.5)
Plastics Eng.(26)	1043	41	403	(9.8)
College Sub-Total	4629	156	1616	
Average Class Size		10.35		
Average Cr.Hr./Class		29.6		
HEALTH PROFESSIONS				
Health Service Admin.(32)	276	7	92	(13.1)
Nursing(33)	572	21	187	(8.9)
College Sub-Total	848	28	279	
Average Class Size		9.96		
Average Cr.Hr./Class		30.2		
MANAGEMENT SCIENCE				
Accounting(60)	183	3	61	(20.3)
Economics(64)	237	4	79	(19.75)
Management(66)	801	16	271	(16.9)
College Sub-Total	1221	23	411	
Average Class Size		17.8		
Average Cr.Hrs./Class		53.0		

GRADUATE	SPRING 1986			
	cr.hr.	(class)#	(students)##	ave.# student/class
MUSIC				
Music Theory/Composition(71)	3	1	1	(1.0)
Performance(72)	47	11	16	(1.45)
Music Education(73)	30	3	10	(3.3)
Music History/Literature(74)	12	1	4	(4.0)
Conducting/Jazz(75&76)	70	13	36	(2.7)
College Sub-Total	162	29	67	
Average Class Size		2.3		
Average Cr.Hrs./Class		5.5		
PURE AND APPLIED SCIENCE				
Biology(81)	391	20	159	(7.95)
Computer Science(91)	1851	49	621	(12.6)
Chemistry(84)	450	13	174	(13.3)
Polymer Science(97)	504	9	180	(20.0)
Mathematics(92)	780	20	258	(12.9)
Physics(80,95,96)	397	23	146	(6.3)
Radiological Health(98)	447	15	170	(11.3)
College Sub-Total	4429	149	1708	
Average Class Size		11.4		
Average Cr.Hrs./Class		29.7		
LIBERAL ARTS				
Psychology(47)	288	8	96	(12.0)
College Sub-Total	288	8	96	
Average Class Size		12.0		
Average Cr.Hrs./Class		36.0		
Continued Matriculation(00)				
UNIVERSITY TOTAL	13277	461	4623	
Average Class Size		10.0		
Average Cr.Hrs./Class		28.8		

UNDERGRADUATE CLASSES - AVERAGE CLASS SIZE*

	SPRING'84	FALL'84	SPRING'85	FALL'85	SPRING'86
HEALTH					
Nursing	41.8	65.0	37.6	15.8	18.7
Clinical Lab Science	24.0	23.2	22.7	24.7	24.0
Medical Technology	13.0	14.9	12.7	12.5	11.4
Physical Therapy	24.1	24.3	28.1	29.8	30.0
Health Education	15.5	18.1	17.2	16.1	15.2
Health Services Adm.	10.0	7.6	7.6	0.0	0.0
Interdisciplinary	39.0	45.0	44.0	50.4	44.3
College Average (Excluding Physical Ed.)	27.5	26.4	23.2	24.8	24.0
EDUCATION					
Foundations	30.0	26.7	24.0	29.3	30.6
Curriculum & Instruction	10.0	13.0	8.6		
College Average	17.6	20.1	18.2	29.3	30.6
ENGINEERING					
Civil Eng.	27.1	18.7	27.7	30.2	23.2
Chemical Eng.	20.7	20.7	21.6	16.2	16.1
Electrical Eng.	32.7	29.6	28.1	34.8	28.7
Industrial Tech.	22.5	20.0	25.4	23.5	21.1
Mechanical Eng.	21.9	19.2	19.5	27.9	28.9
Nuclear Eng.	8.7	12.7	5.5	9.3	11.6
Plastics Eng.	21.1	23.7	18.9	22.0	18.3
Interdisciplinary	157.5	108.8	119.6	103.2	105.5
College Average	23.9	24.9	25.1	25.3	27.0
LIBERAL ARTS					
Art	17.3	20.6	19.1	17.2	16.5
English	23.5	24.4	24.1	24.4	20.1
History	32.0	31.5	29.6	38.3	31.5
Political Science	30.2	32.9	31.3	35.7	30.7
American Studies	1.5	0.0	2.4	2.0	1.0
Law & Justice	26.3	27.4	25.8	28.5	32.4
Languages	14.4	14.9	13.9	16.2	16.5
Psychology	34.8	48.8	37.7	57.5	34.2
Sociology	42.7	33.9	35.4	38.4	38.2
Philosophy	37.3	39.6	46.6	46.0	31.8
Interdisciplinary	15.0	0.0	6.3	0.0	1.5
College Average	26.2	28.9	25.1	30.2	24.8

UNDERGRADUATE CLASSES - AVERAGE CLASS SIZE*

	SPRING'84	FALL'84	SPRING'85	FALL'85	SPRING'86
MANAGEMENT SCIENCE					
Accounting	29.6	29.8	28.6	28.4	31.0
Economics	52.5	46.9	35.3	41.0	32.8
Management	29.1	41.4	30.7	31.7	25.8
College Average	35.8	39.7	31.7	34.5	29.5
MUSIC					
Performance	9.8	12.9	11.2	12.8	8.2
Music Education	9.8	9.5	7.7	7.4	6.0
Music Theory/Comp.	14.1	15.3	12.4	15.4	12.8
Music History & Lit.	19.0	21.2	21.0	18.1	27.0
Recording Technology	11.5	6.2	9.0	9.0	12.6
Music/Industry	____	6.6	7.0	6.7	4.2
College Average	11.0	13.1	10.6	12.9	9.7
SCIENCE					
Biology	21.5	22.5	23.4	26.6	42.4
Chemistry	19.9	21.1	18.9	27.4	23.3
Earth Science	18.8	20.4	21.1	20.1	16.8
Mathematics	30.6	29.6	30.5	29.6	28.2
Physics	18.1	20.0	18.3	28.3	21.8
Rad. Health Physics	6.9	7.1	9.7	8.6	7.9
Computer Science	23.0	25.9	20.4	22.3	22.5
College Average	22.6	23.4	22.4	27.2	25.9
UNIVERSITY AVERAGE	24.4	25.8	23.8	27.8	25.4

Courses allocated to department by course prefixes.

* Based on grades; W's, X's, and Y's, excluded.

Prepared by the Office of Information Systems

GRADUATE CLASSES - AVERAGE CLASS SIZE*

	SPRING'84	FALL'84	SPRING'85	FALL'85	SPRING'86
HEALTH PROFESSIONS					
Interdisciplinary	0.0	22.0		23.0	0.0
Nursing	9.5	9.4		8.6	8.9
Health Service Admin.	17.0	10.7		13.0	13.1
College Average	10.3	10.3		10.3	9.9
EDUCATION					
Computer Literacy	0.0	10.0	9.9	5.2	0.0
Foundations	15.3	9.5	11.7	3.6	10.0
Curriculum & Instruction	6.7	5.5	3.3	12.0	4.5
Education Administration	1.7	8.3	6.0	6.4	5.9
Reading & Language	0.0	4.2	6.6	4.6	5.9
College Average	5.0	6.3	5.0	9.0	6.5
ENGINEERING					
Civil Engineering	10.9	13.4	11.8	11.6	10.0
Environmental Studies	5.8	6.0	4.5	11.6	6.3
Chemical Engineeering	11.8	12.3	9.9	8.7	6.2
Paper Engineering	14.0	1.0	0.0	0.0	2.5
Computer Engineering				1.0	0.0
Material Engineering				9.0	0.0
Electrical Engineering	12.4	15.5	13.1	10.1	15.0
Mechanical Engineering	10.5	8.0	8.1	8.5	9.5
Nuclear Engineering	8.1	6.1	8.0	6.1	6.8
Plastics Engineering	14.5	11.2	13.2	12.9	9.8
College Average	11.2	10.5	10.8	10.1	10.3
LIBERAL ARTS					
Psychology	6.7	11.1	8.7	12.1	12.0
College Average	6.7	11.1	8.7	12.1	12.0
MANAGEMENT SCIENCE					
Accounting	0.0	20.6	9.5	22.6	20.3
Economics	0.0	13.7	14.7	18.0	19.7
Management	0.0	18.8	13.7	20.0	17.8
College Average	0.0	18.1	13.2	20.3	17.8

GRADUATE CLASSES - AVERAGE CLASS SIZE*

	SPRING'84	FALL'84	SPRING'85	FALL'85	SPRING'86
MUSIC					
Music Theory/Composition	4.5	2.6	2.0	6.0	1.0
Performance	1.7	6.8	1.3	1.5	1.4
Conducting/Jazz	4.0	2.0	3.0	3.6	2.7
Music Education	2.6	1.7	3.0	2.6	3.3
Music History/Literature	2.5	6.0	1.0	5.6	4.0
College Average	2.7	4.1	2.0	3.2	2.3
PURE & APPLIED SCIENCE					
Biology	6.5	21.2	6.1	5.0	7.9
Chemistry	11.6	13.7	14.5	12.2	13.3
Polymer Science	23.6	22.5	18.2	19.8	20.0
Computer Science	9.6	15.2	13.1	11.1	12.6
Mathematics	19.9	11.7	11.5	12.8	12.9
Physics	5.7	7.2	5.8	8.1	6.3
Radiological Health	10.6	8.0	8.6	12.7	11.3
College Average	11.5			11.2	11.4
UNIVERSITY AVERAGE	9.0	9.9	9.3	10.4	10.0

Courses allocated to department by course prefixes.

* Based on grades given at the end of the semester; excluding W's, X's, and Y's.

Prepared by the Office of Information Systems.

RESIDENCY -- DAY SCHOOL STUDENTS

	Resident of Mass.	Non-Resident	Citizen of U.S.A.	Alien
Spring 1976	88%	12%	96%	4%
Fall 1976	91%	9%	96%	4%
Spring 1977	91%	9%	96%	4%
Fall 1977	92%	8%	97%	3%
Spring 1978	91%	9%	96%	4%
Fall 1978	92%	8%	97%	3%
Spring 1979	92%	8%	96%	4%
Fall 1979	93%	7%	97%	3%
Spring 1980	93%	7%	96%	4%
Fall 1980	93%	7%	97%	3%
Spring 1981	94%	6%	98%	2%
Fall 1981	92%	8%	96%	4%
Spring 1982	92%	8%	96%	4%
Fall 1982	92%	8%	96%	4%
Spring 1983	92%	8%	96%	4%
Fall 1983	90%	10%	95%	5%
Spring 1984	91%	9%	95%	5%
Fall 1984	94%	6%	98%	2%
Spring 1985	90%	10%	95%	5%
Fall 1985	94%	6%	95%	5%
Spring 1986	91%	9%	95%	5%

Source: Registrar -- REG-19

GRADUATE APPLICATIONS AND ACCEPTANCES - JULY 1986

COLLEGE AND PROGRAM	APPLICATIONS 1985	APPLICATIONS 1986	APPLICATIONS TOT*	ACCEPTANCES 1985	ACCEPTANCES 1986	ACCEPTANCES TOT*
EDUCATION						
AD ADMINISTRATION	2	2	43	1	3	14
CI CURRICULUM & INSTRUCTION	0	1	43	1	1	13
RL READING & LANGUAGE	1	0	52	0	0	11
IC INITIAL CERTIFICATION	5	4	106	3	10	65
LL LANGUAGE ARTS & LITERACY		1	8		0	2
LS LEADERSHIP IN SCHOOLING		1	26		1	10
DE SCIENCE & MATH. ED.		0	2		0	2
TOTAL	8	9	280	5	15	117
ENGINEERING						
CN CHEMICAL	0	0	71	0	1	33
CE CIVIL	0	1	74	3	0	15
CP COMPUTER	3	0	100	1	3	49
EE ELECTRICAL	6	3	331	9	4	126
EM MANUFACTURING ENGINEERING		1	38		0	18
NE ENERGY	2	1	22	0	3	9
EV ENVIRONMENTAL STUDIES	0	0	57	3	1	14
ME MECHANICAL	2	0	111	1	1	34
PL PLASTICS	7	0	121	7	2	63
ST SYSTEMS	0	0	16	0	0	10
TOTAL	20	6	941	24	15	371
HEALTH PROFESSIONS						
AN ADMIN. NURSING SERVICES	0	0	20	0	0	12
NG GERONTOLOGICAL NURSING	1	0	13	0	1	8
NF FAMILY NURSE PRACTITIONER	0	0	49	1	0	19
HS HEALTH SERVICES ADMIN.	3	1	40	0	0	17
TOTAL	4	1	122	1	1	56
LIBERAL ARTS						
PS PSYCHOLOGY	2	0	32	0	2	6
CJ CRIMINAL JUSTICE		0	22		5	15
TOTAL	2	0	54	0	7	21
MANAGEMENT						
MB BUSINESS ADMINISTRATION	5	2	238	6	8	122
MUSIC						
MS MUSIC EDUCATION	0	0	15	0	1	5
MP MUSIC PERFORMANCE/CONDUCT.	0	1	18	0	2	10
MX MUSICOLOGY	0	0	0	0	0	0
MT MUSIC THEORY/COMPOSITION	0	0	0	0	0	0
TOTAL	0	1	33	0	3	15
PURE & APPLIED SCIENCE						
BS BIOLOGY	0	0	59	0	2	24
CH CHEMISTRY	5	0	59	3	1	18
CS COMPUTER SCIENCE	4	2	271	3	11	93
MATHEMATICS						
SM STATISTICS & O.R.	0	0	3	0	1	1
MC COMPUTER OPTION	3	2	194	2	3	69
MA APPLIED MATHEMATICS	0	1	32	0	7	19
MH MATHEMATICS FOR TEACHERS	0	0	3	0	0	2
PH PHYSICS	0	0	76	5	1	30
PM POLYMER SCIENCE	0	0	30	1	2	7
RS RADIOLOGICAL SCIENCE	1	0	41	3	1	25
TOTAL	13	5	768	17	29	288
GRAND TOTAL	52	24	2436	53	78	990

*TOT = Total for year since Sept. 1.

GRADUATE APPLICANTS PROFILE 1985-1986

CATEGORY	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
Male	171	86	121	161	306	164	188	197	170	82	13	
Female	99	46	61	80	138	70	73	90	85	42	12	
Mass. resident	204	47	89	166	320	88	99	129	153	82	17	
Out-of-state resident	27	9	17	29	56	20	21	23	20	11	2	
Foreign resident	37	75	76	41	69	127	141	139	85	38	5	
Citizen	225	46	93	190	364	101	116	140	164	82	17	
Non-immigrant	37	74	72	41	64	127	142	138	85	38	5	
Immigrant	5	9	16	6	16	7	3	13	9	11	2	
Veteran	0	1	9	12	5	2	2	8	7	5	2	
Non-veteran	269	130	173	225	438	233	258	283	250	126	22	
Degrees sought:												
Master of Science in Eng.								82	61	22	6	
Master of Science	29	45	65	20	26	84	75	110	60	36	6	
Combined BS/MS	1	4	2	0	0	0	3	0	40	0	0	
Master of Arts	0	1	1	1	3	1	3	11	9	9	0	
Master of Education	3	8	9	3	3	8	14	12	26	18	5	
Master of Music	0	38	1	3	0	2	4	5	5	5	1	
Master of Business Admin.	7	14	31	17	11	15	27	37	27	23	2	
Cert. of Adv. Grad. Study	1	0	1	0	0	0	0	0	0	1	1	
Doctor of Philosophy	2	8	7	6	12	23	22	12	7	5	0	
Doctor of Science	1	3	1	5	0	6	3	5	5	2	0	
Doctor of Engineering	0	4	6	0	4	16	2	1	3	6	0	
Non-degree	217	0	1	147	345	19	3	0	0	0	0	

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UNIVERSITY OF LOWELL

GRADE DISTRIBUTION FOR THE UNIVERSITY

KEY

NC = NO CREDIT

S = SATISFACTORY (C GRADE OR HIGHER IN A PRACTICUM)

U = UNSATISFACTORY

P = PASS (PHYSICAL EDUCATION)

PR = GRADUATED THESIS IN PROGRESS (NEW DESIGNATION)

AU = AUDIT

I = INCOMPLETE

W = WITHDRAWAL BEFORE 40TH CLASS DAY

X = WITHDRAWAL AFTER 40TH DAY, BEFORE FINAL (USUALLY FOR MEDICAL REASONS)

Y = RETROACTIVE WITHDRAWAL AFTER THE EXAM, FOR EXTENUATING CIRCUMSTANCES

UNIVERSITY GRADE DISTRIBUTION*

	FALL 1985		SPRING 1986	
GRADE	NUMBER GIVEN	PERCENT DISTRIBUTION	NUMBER GIVEN	PERCENT DISTRIBUTION
A	5218	11.06	6593	14.27
AB	6014	12.75	6553	14.18
B	8330	17.66	7979	17.27
BC	5923	12.56	5449	11.79
C	5858	12.42	4916	10.64
CD	2795	5.93	2165	4.68
D	2386	5.06	1915	4.14
F	3825	8.11	2491	5.39
NG	302	.64	292	.63
W	3451	7.32	2688	5.82
S	411	.87	1332	2.88
U	97	.21	61	.13
P	2380	5.05	2888	6.25
X	156	.33	136	.29
Y	1	.00	6	.01
PR	2	.00	93	.20
AU	10	.02	39	.08
	0	.00	616	1.33
TOTAL	47159	100.00	46212	100.00

* All day school grades.

UNDERGRADUATE STUDENT AGES AS OF FALL 1985

(Day School Full-Time Only)

	UNDER									OVER
	15-20	21-25	26-30	31-35	36-40	41-45	46-50	51-55	56-60	Over 60
Female	962	1709	153	66	57	39	18	12	3	7
Male	1682	3108	315	59	36	4	3	0	0	6

Total Female	3026
Total Male	5213
Total	8239

DEGREES CONFERRED
BY COLLEGE

UNDERGRADUATE DEGREES	1983-84	PERCENT	1984-85	PERCENT	1985-86	PERCENT
HEALTH PROFESSIONS						
Bachelor of Science	162[1]	(8.11)	155	(7.59)	160[1]	(7.27)
EDUCATION						
Bachelor of Arts	5	(0.25)	13	(0.64)	3	(0.14)
ENGINEERING						
Bachelor of Engineering	465	(23.28)	508	(24.88)	506[9]	(22.98)
LIBERAL ARTS						
Bachelor of Arts	147[3]	(7.36)	156[3]	(7.69)	124[66]	(5.63)
Bachelor of Science	46[7]	(2.30)	58	(2.84)	45[21]	(2.04)
MANAGEMENT SCIENCE						
Bachelor of Arts	1	(0.05)	1	(0.05)	1	(0.05)
Bachelor of Science in Business Admin.	420[3]	(21.03)	369[7]	(18.07)	419[87]	(19.03)
MUSIC						
Bachelor of Arts	2	(0.09)	0	(0.00)	0	(0.00)
Bachelor of Music	50[5]	(2.51)	39[5]	(1.91)	37[5]	(1.68)
PURE & APPLIED SCIENCE						
Bachelor of Arts	6[1]	(0.30)	3	(0.15)	9[4]	(0.41)
Bachelor of Science	180[1]	(8.11)	1842	(9.01)	204[29]	(9.26)
UNDERGRADUATE TOTAL	1484[21]	(73.41)	1486[17]	(72.82)	1508[222]	(68.49)
GRADUATE	279	(13.97)	391	(19.00)	474	(21.66)
CONTINUING EDUCATION	252	(12.62)	176	(8.18)	217	(9.85)
UNIVERSITY TOTAL	2015[21]	(100.00)	2053[17]	(100.00)	2202[222]	(100.00)

NOTE: Numbers in superscript indicate the number of students earning double majors.

DEGREES CONFERRED
BY COLLEGE

GRADUATE DEGREES	1983-84	PERCENT	1984-85	PERCENT	1985-86	PERCENT
HEALTH PROFESSIONS						
Master of Science in Nursing	27	(9.68)	29	(7.74)	27	(5.68)
EDUCATION						
Master of Education	38	(13.62)	34	(8.76)	49	(10.32)
ENGINEERING						
Master of Science in Engineering	56	(20.07)	113	(28.35)	142	(29.89)
MANAGEMENT SCIENCE						
Masters of Business Admin.	29	(10.39)	54	(13.92)	36	(7.58)
MUSIC						
Master of Music	7	(2.51)	6	(1.55)	3	(0.63)
LIBERAL ARTS						
Master of Psychology	1	(0.36)	7	(1.80)	4	(0.63)
PURE & APPLIED SCIENCE						
Master of Science	102	(36.56)	131	(33.76)	199	(41.89)
Master of Math.for Teachers	8	(2.87)	7	(1.80)	2	(0.42)
CERT.OF ADVANCED GRADUATE STUDY						
Reading and Language	1	(0.36)	1	(0.26)	3	(0.63)
DOCTOR OF PHILOSOPHY	10	(3.58)	9	(2.32)	10	(2.11)
Total	279	(100.00)	391	(100.00)	475	(100.00)

DEGREES CONFERRED BY MAJOR

UNDERGRADUATE DEGREES	1983-84	PERCENT	1984-85	PERCENT	1985-86	PERCENT
HEALTH PROFESSIONS						
Bachelor of Science						
Physical Therapy	34	(2.32)	36	(2.42)	49	(3.25)
Clinical Lab.Science	20	(1.36)	21	(1.41)	21	(1.39)
Health Education	14	(0.95)	12	(0.81)	18	(1.19)
Nursing	83	(5.66)	78	(5.25)	71	(4.71)
Health Service Adm.	11	(0.75)	8	(0.54)	1	(0.07)
Total	162	(11.05)	155	(10.42)	160	(10.61)
ENGINEERING						
Bachelor of Science						
Chemical	24	(1.64)	51	(3.43)	42[1]	(2.79)
Civil	56	(3.82)	53	(3.56)	50	(3.32)
Electrical	142	(9.69)	142	(9.55)	194[4]	(12.86)
Mechanical	108	(7.37)	138	(9.28)	96[1]	(6.37)
Nuclear	12	(0.82)	11	(0.74)	7[1]	(0.46)
Plastics	51	(3.48)	54	(3.63)	53	(3.51)
Industrial Technology	64	(4.37)	59	(3.97)	64[2]	(4.24)
Chemical Engineering-Paper	8	(0.55)	0	(0.00)	0	(0.00)
Total	465	(31.72)	508	(34.16)	506[9]	(33.55)
LIBERAL ARTS						
Bachelor of Arts						
American Studies	2	(0.14)	3	(0.13)	4	(0.27)
Art	9	(0.61)	13	(0.58)	10[10]	(0.66)
English	33[2]	(2.25)	33[1]	(2.22)	17[11]	(1.13)
French	0	(0.00)	1	(0.07)	3[1]	(0.20)
Philosophy	0	(0.00)	1	(0.07)	2[1]	(0.13)
Psychology	44	(3.00)	54[1]	(3.63)	39[17]	(2.59)
Sociology	10[1]	(0.68)	9	(0.51)	14[5]	(0.93)
Spanish	6	(0.41)	8	(0.67)	5[3]	(0.33)
Modern Languages	0	(0.00)	2	(0.13)	0	(0.00)
History	14	(0.95)	11[1]	(0.74)	12[6]	(0.80)
Political Science	20	(1.36)	18	(1.21)	13[7]	(0.86)
Bachelor of Science						
Criminal Justice	46[7]	(3.14)	58	(3.90)	45[21]	(2.98)
Bachelor of Fine Arts	9	(0.61)	3	(0.20)	5[5]	(0.33)
Total	193[10]	(13.17)	214[3]	(14.46)	169[26]	(11.21)

DEGREES CONFERRED BY MAJOR

UNDERGRADUATE DEGREES	1983-84	PERCENT	1984-85	PERCENT	1985-86	PERCENT
MANAGEMENT SCIENCE						
B.S. in Business Administration						
Accounting	102	(6.96)	79[5]	(5.31)	84[10]	(5.57)
Management	301[1]	(20.53)	277[2]	(6.86)	280[67]	(18.57)
Economics	7	(0.48)	8	(0.54)	2	(0.13)
Marketing					45[9]	(2.98)
Bachelor of Arts						
Economics	1	(0.07)	1	(0.07)	1	(0.07)
B.S. in Industrial Mgt.	10	(0.68)	5	(0.34)	8[1]	(0.54)
Total	421[1]	(28.72)	370[7]	(24.88)	420[87]	(27.86)
MUSIC						
Bachelor of Arts						
Music	2	(0.14)	0	(0.00)	2[1]	(0.13)
Bachelor of Music						
Music/Business	4	(0.27)	12	(0.81)	7[1]	(0.46)
Music Education	25	(1.71)	15	(1.01)	18[3]	(1.19)
Music History	1	(0.07)	0	(0.00)	0	(0.00)
Performance	15	(1.02)	9	(0.81)	5	(0.33)
Music Theory/Composition	3	(0.20)	2	(0.13)	1	(0.07)
Music History & Literature	2	(0.14)	0	(0.00)	0	(0.00)
Sound Recording Technology	1	(0.07)	1	(0.07)	4	(0.27)
Total	50	(3.55)	39	(2.62)	37	(2.45)
PURE & APPLIED SCIENCE						
Bachelor of Science						
Biological Science	17	(1.02)	11	(0.74)	24[1]	(1.59)
Chemistry	13	(0.75)	11	(0.74)	11	(0.73)
Computer Science	75	(4.64)	95[1]	(6.39)	107	(7.10)
Environmental Science	9	(0.48)	4	(0.27)	0	(0.00)
Mathematics	44	(2.86)	30	(2.02)	26[22]	(1.72)
Meteorology	7	(0.34)	9[1]	(0.61)	10	(0.66)
Physics	10	(0.68)	16	(1.08)	9[6]	(0.60)
Radiological Health Physics	5	(0.27)	8	(0.54)	17	(1.13)
Bachelor of Arts						
Environmental Science	6[1]	(0.41)	3	(0.20)	9[4]	(0.59)
Total	186[1]	(11.45)	187[2]	(12.58)	213[33]	(14.12)
EDUCATION						
Elementary Education						
Art	0	(0.00)	1	(0.07)		
English	0	(0.00)	2	(0.13)	1	(0.06)
French	0	(0.00)	0	(0.00)		
Spanish	0	(0.00)	0	(0.00)		
Sociology	0	(0.00)	1	(0.07)		
History	2	(0.14)	0	(0.00)		
Psychology	3	(0.20)	9	(0.61)	2	(0.13)
Total	5	(0.34)	13	(0.87)	3	(0.20)

DEGREES CONFERRED BY MAJOR

GRADUATE DEGREES	1983-84	PERCENT	1984-85	PERCENT	1985-86	PERCENT
Doctor of Philosophy						
Biochemistry	2	(20.0)	0	(0.00)	0	(0.00)
Chemistry	1	(10.0)	1	(11.11)	2	(20.00)
Mechanical/Energy					2	(20.00)
Physics	5	(50.0)	5	(55.56)	2	(20.00)
Plastics					2	(20.00)
Polymer Science	2	(20.0)	3	(33.33)	2	(20.00)
TOTAL	10	(100%)	9	(100.00)	10	(100.00)
CAGS						
Reading and Language	1	(100%)	1	(100.00)	3	(100.00)
TOTAL	1	(100%)	1	(100.00)	3	(100.00)
HEALTH PROFESSIONS						
Master of Science in Nursing	27	(10.0)	29	(7.67)	27	(5.78)
TOTAL	27	(10.0)	29	(7.67)	27	(5.78)
EDUCATION						
Master of Education						
Educational Administration	7	(2.61)	8	(2.12)	1	(0.21)
Reading and Language	11	(4.10)	6	(1.59)	1	(0.21)
Curriculum and Instruction	20	(7.46)	20	(5.29)	47	(10.07)
TOTAL	38	(14.18)	34	(8.99)	49	(10.49)
ENGINEERING						
Master of Science in Engineering						
Chemical	5	(1.87)	7	(1.59)	5	(1.07)
Civil	3	(1.12)	13	(3.44)	13	(2.78)
Computer	23	(8.58)	36	(9.52)	45	(9.64)
Electrical	5	(1.87)	12	(3.17)	21	(4.50)
Environmental Studies	1	(0.37)	3	(0.79)	5	(1.07)
Energy	3	(1.12)	2	(0.53)	9	(1.93)
Plastics Engineering	10	(3.73)	24	(6.35)	23	(4.93)
Mechanical	3	(1.12)	10	(2.65)	13	(2.78)
Paper	0	(0.00)	0	(0.00)	0	(0.00)
Systems	3	(1.12)	3	(0.26)	2	(0.43)
Plastics	0	(0.00)	1	(0.26)	8	(1.71)
TOTAL	56	(20.90)	111	(29.10)	144	(30.84)

DEGREES CONFERRED BY MAJOR

GRADUATE DEGREES	1983-84	PERCENT	1984-85	PERCENT	1985-86	PERCENT
MANAGEMENT SCIENCE						
Master of Business Administration	29	(10.8)	54	(14.29)	36	(7.71)
TOTAL	29	(10.8)	54	(14.29)	36	(7.71)
MUSIC						
Master of Music						
Music Theory/Composition	0	(0.00)	1	(0.26)	0	(0.00)
Music Education	1	(0.37)	2	(0.53)	2	(0.43)
Performance	6	(2.24)	3	(0.79)	1	(0.21)
TOTAL	7	(2.61)	6	(1.59)	3	(0.64)
LIBERAL ARTS						
Master of Arts						
Community Social Psychology	1	(0.37)	7	(1.85)	4	(0.86)
TOTAL	1	(0.37)	7	(1.85)	4	(0.86)
PURE & APPLIED SCIENCE						
Master of Science						
Biological Science	21	(7.84)	12	(3.17)	16	(3.43)
Chemistry	3	(1.12)	0	(0.00)	3	(0.64)
Computer Science	1	(0.37)	4	(1.06)	17	(3.64)
Mathematics/Applied Math.	4	(1.49)	4	(1.06)	3	(0.64)
Mathematics/Computer Science	55	(20.52)	93	(24.60)	129	(27.62)
Mathematics/Statistics	1	(0.37)	0	(0.00)	2	(0.43)
Mathematics for Teachers	8	(2.99)	7	(1.85)	2	(0.43)
Physics	4	(1.49)	2	(0.53)	5	(1.07)
Polymer Science	0	(0.00)	2	(0.53)	5	(1.07)
Radiological Science	13	(4.85)	14	(3.70)	19	(4.07)
TOTAL	110	(41.04)	138	(36.51)	201	(43.04)

DEGREES CONFERRED BY MAJOR

CONTINUING EDUCATION	1983-84	PERCENT	1984-85	PERCENT	1985-86	PERCENT
Bachelor of Science						
Accounting	14	(5.56)	8	(4.79)	8	(3.68)
Applied Chemistry	6	(2.38)	2	(1.20)	1	(0.46)
Banking	2	(0.79)	2	(0.60)	5	(2.30)
Information Systems	19	(7.54)	13	(5.39)	16	(7.37)
Management	39	(15.48)	20	(8.98)	36	(16.59)
Public Service:						
Adm. of Criminal Justice	9	(3.57)	6	(0.00)	0	(0.00)
Business Adm.	0	(0.00)	0	(0.00)	0	(0.00)
Applied Mathematics	5	(1.98)	3	(1.80)	5	(2.30)
Nursing	11	(4.37)	9	(0.00)	0	(0.00)
Bachelor of Liberal Arts in Social Science	0	(0.00)	2	(0.00)	0	(0.00)
B.S. in Engineering Technology	63	(25.00)	41	(40.12)	63	(29.03)
TOTAL (Bachelor Degrees)	168	(66.67)	106	(62.87)	134	(61.75)
Associate of Science						
Accounting	3	(1.19)	3	(1.80)	6	(2.76)
Applied Chemistry	4	(1.59)	1	(0.60)	4	(1.84)
Applied Mathematics	4	(1.59)	4	(2.40)	12	(5.53)
Banking	2	(0.79)	0	(0.00)	1	(0.46)
Information Systems	9	(3.57)	12	(5.99)	11	(5.07)
Management	17	(6.75)	15	(5.99)	20	(9.22)
Public Service: Police Sci.	1	(0.40)	1	(0.00)	0	(0.00)
Associate of Science in Engineering Technology						
Civil	3	(1.19)	1	(0.60)	1	(0.46)
Electronic	18	(7.14)	16	(9.58)	18	(8.29)
Mechanical	23	(9.17)	17	(10.18)	10	(4.60)
TOTAL (Associate Degrees)	84	(33.33)	70	(37.13)	83	(38.25)
GRAND TOTAL ALL CONTINUING EDUCATION					217	(100.00)

UNIVERSITY OF LOWELL JUNE 30, 1986
FINANCIAL AID PROGRAMS
1985-1986

FEDERAL PROGRAMS

Program	Recipients	Amount
PELL Grants (BEOG)	1228	1,569,375
Supplemental Grants (SEOG)	429	285,425
College Work-Study (CWSP)	434	561,992
National Direct Student Loan (NDSL)	239	242,525
Nursing Student Loan (NSL)	18	25,100
Guaranteed Student Loan (GSL)	2355	5,607,988
Professional Nurse Traineeship	48	90,463
TOTAL	4751	8,382,868

BOARD OF REGENTS PROGRAM

Board of Regents General Scholarships	1361	776,225
Board of Regents Honor Scholarships	125	129,600
Board of Regents Fire/Police Christian Herter	5	5,740
Tuition Waiver (Talent)	30	30,942
Tuition Waiver 2% and 4%	1945	608,500
Mass. Education Employment Program (Pilot)	68	56,182
Mass. Adult Learner Program (Pilot)	32	40,000
Graduate Grant Program (Pilot)	71	68,603
Teacher Incentive Grants	6	6,000
Commonwealth Scholar Grants	28	28,000
TOTAL	3671	1,749,792

UNIVERSITY SCHOLARSHIP - EMPLOYMENT PROGRAM

Commonwealth of Mass.	80	86,400
General - Department	80	35,752
Athletic Department Grant Award	44	99,794
Athletic Dorm Waivers - Work	36	42,471
Student Union/Energy, Computer Monitors	33	71,993
Continuing Education Parking Attendents	22	38,000
TOTAL	295	374,410
TOTAL AWARDS (not an unduplicated count):	8717	10,507,070
PRIVATE SCHOLARSHIPS	432	264,756

OFF-CAMPUS: UNIVERSITY JOB LOCATOR PROGRAM:

New Students Hired - (Confirmed)	178	376,898
Various Employers Posting Jobs (520)		
Employers Hiring Students (84)		
Students Registered for Employment (528)		
Referrals (1320)		
GRAND TOTAL (AWARDS):	9327	$11,148,724

Unduplicated Number of Students (approximate) 6150

Students Continuing Employment from Prior Year Placement Not Included.

HEALTH SERVICES

	1982-83	1983-84	1984-85	1985-86
NUMBER OF STUDENTS TREATED AT STUDENT HEALTH SERVICE	3,467	3,858	3,880	3,869

The Student Health Service provides a variety of services which include episodic care, gynecological and family planning, allergy injections, Mantoux TB testing and stress management.

The Student Health Service maintains two offices. The North Campus office is located on 30 Standish Street and is open Monday through Friday from 8:00 a.m. to 4:30 p.m. The South Campus office is being relocated from Mahoney Hall to Room 224 in the Student Union Building. This office will be open 8:00 a.m. to 12 noon and 1:00 p.m. to 4:30 p.m. Monday through Friday.

Source: Ann M. Peterson, Director of Student Health Services.

ALUMNI

UNIVERSITY OF LOWELL ALUMNI ASSOCIATION

LOCATION: NORTH CAMPUS - ALUMNI MEMORIAL LIBRARY BUILDING - 2ND FLOOR
HOURS: Monday through Friday 9:00 a.m. to 5:00 p.m.
STAFF: Director of Alumni Affairs
Executive Secretary/Office Manager
Alumni Records Coordinator
Bookkeeper
TELEPHONE: (617) 454-6335
(617) 452-5000 Ext. 2396
(617) 452-5000 Ext. 2696 (Alumni Records)

WHAT IS THE UNIVERSITY OF LOWELL ALUMNI ASSOCIATION?

The Alumni Association of the University of Lowell is an independent non-profit organization working in co-operation with the University. It relies on alumni for financial support. March 13, 1976 marked the merger of the two alumni associations from Lowell Technological Institute and Lowell State College. The ULAA is governed by the ULAA Board of Directors which includes five Officers, the past President, and twenty-four Directors.

HOW DO YOU BECOME A MEMBER?

Any graduate who makes a yearly financial contribution of a minimum of $20.00 to the Association becomes a member. This entitles one to the full privileges of membership, including the right to vote and hold office. There are no dues. All alumni who have been graduated fifty years or longer are Honorary Members. Contributions are tax deductible as provided by law. Life Membership in the Association is attained by the unrestricted contribution of $1,000. either cumulative or in a lump sum to the Association and/or its Endowment Fund.

WHAT DOES THE ASSOCIATION DO?

As a service organization, the Association:

--- Maintains an office as an information and service center.
--- Helps alumni with individual requests or problems.
--- Maintains the permanent address file of alumni for the Association and the University.
--- Assists the University Alumni Relations and Annual Giving Offices in development and fund raising.
--- Works with the Placement Office to aid alumni in career objectives.
--- Coordinates class agents and college chapter formation.
--- Provides library and gymnasium use through Association Membership.
--- Serves as agent for the purchase of college chairs by alumni and friends.
--- Serves as agent for Alumni discount Charter Travel.
--- Provides Group Life and Health Insurance Programs.
--- Arranges Annual Homecomings and Reunions.
--- Sponsors social and educational functions.
--- Supports special programs at the University for students, parents and faculty.
--- Maintains past history through various collections of material.
--- Provides short-term interest free loans to students.
--- Supports students through scholarships and part-time employment.
--- Aids donors in transmitting gifts to various funds, such as books for the Alumni Library, and special laboratory equipment not supplied by the University.
--- Augments faculty travel expenses for wider participation in industry and professional associations. (per trust fund directions)

ALUMNI

GEOGRAPHIC ANALYSIS - SPRING 1986

NATIONAL	27,257
INTERNATIONAL	372
	27,629

NATIONAL BY STATE

ALABAMA	26	MONTANA	4
ALASKA	9	NEBRASKA	18
ARIZONA	59	NEVADA	9
ARKANSAS	8	NEW HAMPSHIRE	2,630
CALIFORNIA	568	NEW JERSEY	433
COLORADO	75	NEW MEXICO	29
CONNECTICUT	691	NEW YORK	738
DELAWARE	60	NORTH CAROLINA	134
DISTRICT OF COLUMBIA	19	NORTH DAKOTA	0
FLORIDA	422	OHIO	158
GEORGIA	91	OKLAHOMA	18
HAWAII	11	OREGON	24
IDAHO	8	PENNSYLVANIA	252
ILLINOIS	107	PUERTO RICO	3
INDIANA	38	RHODE ISLAND	205
IOWA	8	SOUTH CAROLINA	56
KANSAS	10	SOUTH DAKOTA	3
KENTUCKY	17	TENNESSEE	41
LOUISIANA	27	TEXAS	167
MAINE	301	UTAH	12
MARYLAND	194	VERMONT	100
MASSACHUSETTS	18,925	VIRGINIA	268
MICHIGAN	93	VIRGIN ISLANDS	4
MINNESOTA	32	WASHINGTON	45
MISSISSIPPI	13	WEST VIRGINIA	18
MISSOURI	38	WISCONSIN	38
		WYOMING	0

INTERNATIONAL ALUMNI

AFRICA

- EGYPT.....7
- KENYA.....3
- NIGERIA.....3
- NO. AFRICA.....3
- SO. AFRICA.....3
- W. AFRICA.....3
- ZAMBIA.....2

ASIA & THE MIDDLE EAST

- BANGLADESH.....2
- CHINA
  - HONG KONG.....29
  - MISC.....2
- INDIA
  - BOMBAY.....35
  - BURMA.....2
  - NEW DELHI.....9
  - MISC.....36
- INDONESIA.....1
- IRAN.....5
- IRAQ.....1
- ISRAEL.....5
- JAPAN.....6
- KOREA.....4
- MALAYSIA.....3
- PAKISTAN.....1
- SAUDI ARABIA.....5
- SINGAPORE.....1
- TAIWAN.....18
- THAILAND.....9

AUSTRALIA.....3

CANADA.....36

EUROPE

- AUSTRIA.....1
- BELGIUM.....4
- DENMARK.....1
- ENGLAND.....5
- FINLAND.....1
- FRANCE.....4
- GREECE.....18
- IRELAND.....1
- ITALY.....4
- SPAIN.....1
- SWITZERLAND.....1
- TURKEY.....7
- W. GERMANY.....2

ISLANDS

- BERMUDA.....1
- COSTA RICA.....2
- GRAND BAHAMA ISLAND.1
- JAMAICA.....1
- PHILLIPINES.....2
- WEST INDIES.....2

MEXICO.....13

SOUTH & CENTRAL AMERICA

- ARGENTINA.....3
- BOLIVIA.....3
- BRAZIL.....7
- CHILE.....4
- COLUMBIA.....17
- ECUADOR.....1
- EL SALVADOR.....2
- GUATAMALA.....3
- PANAMA.....1
- PERU.....2
- URUGUAY.....1
- VENEZUELA.....19

ALUMNI TOTALS FOR MAJORS BY COLLEGE AS OF APRIL 1986

HEALTH PROF.#1

	ADD.	L+D
AN	2	0
HE	111	9
HS	99	8
MD	156	11
NF	8	0
NG	23	3
NU	922	81
PT	169	5
	1490	117

EDUCATION #2

	ADD.	L+D
AD	147	12
AE	40	1
CI	53	1
EA	7	1
ED	3505	1582
EF	12	0
EG	84	3
EH	62	5
EI	12	3
EL	2	1
EM	94	3
EO	48	5
EP	199	17
ER	86	2
ES	3	1
EX	4	0
HM	2	3
RL	131	6
SA	19	2
SB	50	0
SC	0	4
SE	206	26
SF	52	5
SH	139	11
SL	10	0
SM	39	5
SP	48	11
SR	1	0
SS	15	4
SV	1	0
	5071	1714

ENGINEERING #3

	ADD.	L+D
CE	978	87
CM	40	99
CN	586	95
CP	182	23
EE	2383	325
ET	65	8
EV	32	1
EX	137	131
GE	52	7
HM	1	0
IE	26	4
IT	518	44
LE	27	2
ME	1527	195
NE	417	57
PA	131	13
PL	931	126
ST	29	0
TC	526	362
TD	51	81
TE	729	426
TS	45	17
TT	58	27
WM	125	200
	9596	2334

LIB.ARTS #4

	ADD.	L+D
AR	165	9
AS	41	5
BY	41	5
EN	350	39
ES	5	1
HI	184	12
LF	30	4
LJ	433	24
LS	59	5
MH	16	1
ML	7	1
PO	145	9
PS	432	44
PY	47	13
SO	272	27
	2227	199

MANAGEMENT #5

	ADD.	L+D
AC	927	52
BA	933	114
BK	13	2
EC	74	5
EK	2	0
IM	596	82
MB	29	1
MG	2188	152
	4762	408

MUSIC #6

	ADD.	L+D
EX	1	0
MI	15	0
MJ	12	0
MP	33	2
MR	2	0
MS	113	2
MT	14	0
MU	1319	258
MX	12	3
MZ	3	0
	1524	265

PURE & APP. #7

	ADD.	L+D
BS	370	25
CH	444	61
CS	199	3
ES	105	7
EY	17	1
IS	99	6
MA	711	58
MC	162	10
MH	125	5
MY	173	15
PH	337	47
PM	26	5
RS	141	18
	2909	281

NOTES: Totals on this page are for known addresses(ADD.) and lost+deceased(L+D).
They include Day, Evening and Graduate School Alumni.
Totals vary as address changes are made.
Some individuals' codes may be changed within the colleges as research on some classes is finalized.

See major code list for major identification.

Florence H. Lacouture, Coordinator of Alumni Records and Research April 1986

ALUMNI MAJOR CODES BY COLLEGE

HEALTH - COLLEGE #1

AN1B* ADM. OF NURSING SERVICES
CL1C CLINICAL LAB.SC.-CL.SC.OPTION
HE1C HEALTH EDUCATION
HS1B* HEALTH SERVICES ADMINISTRATION
MD1C CLINICAL LAB.SC.-MED.TECH.OPT.
NF1B* FAMILY & COMMUNITY HEALTH NSG.
NG1B* GERONTOLOGICAL NURSING
NU1C NURSING
PT1C PHYSICAL THERAPY

*These may also be listed under NU1B

EDUCATION - COLLEGE #2

AD2B ADMINISTRATION
AE2C ART EDUCATION/ART
CI2B CURRICULUM AND INSTRUCTION
DE2B SCIENCE AND MATH.EDUCATION
ED2C EDUCATION - ELEM.&SECONDARY
ED2B MASTER OF EDUCATION
EA2C ELEMENTARY ED./AM.STUDIES
EF2C ELEMENTARY ED./FRENCH
EG2C ELEMENTARY ED./ENGLISH
EH2C ELEMENTARY ED./HISTORY
EI2C ELEMENTARY ED./SPANISH
EL2C ELEMENTARY ED./POL.SCIENCE
EM2C ELEMENTARY ED./MATHEMATICS
EO2C ELEMENTARY ED./SOCIOLOGY
EP2C ELEMENTARY ED./PSYCHOLOGY
ER2C ELEMENTARY ED./ART
ES2C ELEMENTARY ED./ENV.SCIENCE(LSC)
EX2C DID NOT GRADUATE
HM2 HONORARY MEMBER OF CLASS
IC2B INITIAL CERTIFICATION
LL2D LANGUAGE ARTS AND LITERACY
LS2D LEADERSHIP IN SCHOOLING
RL2B READING AND LANGUAGE
SA2C SECONDARY ED./SPANISH
SB2C SECONDARY ED./BIOLOGY
SC2C SPECIAL CERTIFICATE
SE2C SECONDARY ED./ENGLISH
SF2C SECONDARY ED./FRENCH
SH2C SECONDARY ED./HISTORY
SL2C SECONDARY ED./POL.SCIENCE
SM2C SECONDARY ED./MATHEMATICS
SP2C SECONDARY ED./PSYCHOLOGY
SS2C SECONDARY ED./SOCIOLOGY
SV2C SECONDARY ED./ENV.SCIENCE

EVENING SCHOOL = A & E
DAY SCHOOL = C
GRADUATE SCHOOL = B & D

ENGINEERING - COLLEGE #3

CE3C***CIVIL ENGINEERING
CM3C COTTON MANUFACTURING
CN3C***CHEMICAL ENGINEERING
CP3B COMPUTER ENGINEERING
EE3C***ELECTRICAL ENGINEERING
EM3B MANUFACTURING ENGINEERING
ET3C* ENGINEERING TECHNOLOGY
EV3B ENVIRONMENTAL STUDIES
EX3C DID NOT GRADUATE
GE3C GENERAL ENGINEERING
HM3 HONORARY MEMBER OF CLASS
IE3A INDUSTRIAL ELECTRONICS/ENG.
IO3A INDUSTRIAL OPTIONS
IT3C* INDUSTRIAL TECHNOLOGY
LE3C LEATHER ENGINEERING
ME3C***MECHANICAL ENGINEERING
NE3C** NUCLEAR AND ENERGY ENG.
PA3C** CHEM.ENG./PAPER OPTION
PL3C** PLASTICS ENGINEERING
ST3B SYSTEMS ENGINEERING
TC3C** TEXTILE CHEMISTRY
TD3C* TEXTILE DESIGN
TE3C***TEXTILE ENGINEERING
TS3C TEXTILE SALES
TT3C** TEXTILE TECHNOLOGY
WM3C WOOL MANUFACTURING

* Also evening school(A&E)
** Also graduate school(B)
***Also grad. and eve. schools(ABDE)

LIBERAL ARTS - COLLEGE #4

AR4C ART
AS4C AMERICAN STUDIES
BY4C BIOLOGY(LSC)
EN4C ENGLISH
ES4C ENVIRONMENTAL SCIENCE(LSC)
HI4C HISTORY
LF4C FRENCH
LJ4C* CRIMINAL LAW AND JUSTICE
PUBLIC SERVICE:CORRECT.ADM.
PUBLIC SERVICE:ADM.OF L&J
LS4C SPANISH
MH4C** MATH(LSC)
ML4C MODERN LANGUAGES
PO4C POLITICAL SCIENCE
PS4C** PSYCHOLOGY/COMM.&SOC.PSYCH.
PY4C PHILOSOPHY
SO4C SOCIOLOGY

* Also evening school(A&E)
** Also graduate school(B)

MANAGEMENT SCIENCE - COLLEGE #5

AC5C* ACCOUNTING
BA5C***BUSINESS ADMINISTRATION
BK5A BANKING
EC5C ECONOMICS(BSBA)
EK5C ECONOMICS(BA)
IM5C INDUSTRIAL MANAGEMENT
MB5B MASTERS IN BUS.ADM.(AlsoMG5B)
MG5C** MANAGEMENT
MK5C MARKETING

* Also evening school(A&E)
** Also graduate school(B)
***Also evening and grad.school(ABE)

MUSIC - COLLEGE #6

EX6C DID NOT GRADUATE
MI6C MUSIC BUSINESS
MJ6C MUSIC JAZZ
MP6C** MUSIC PERFORMANCE/CONDUCTING
MR6C SOUND RECORDING TECHNOLOGY
MS6C** MUSIC EDUCATION
MT6C** MUSIC THEORY AND COMPOSITION
MU6C** MUSIC EDUCATION(LSC)
MUSIC MUSICOLOGY
MX6C** BA MUSIC/MUSICOLOGY
MZ6C MUSIC HISTORY AND LITERATURE

**Also graduate school(B)

PURE AND APPLIED SCIENCE - COLLEGE#7

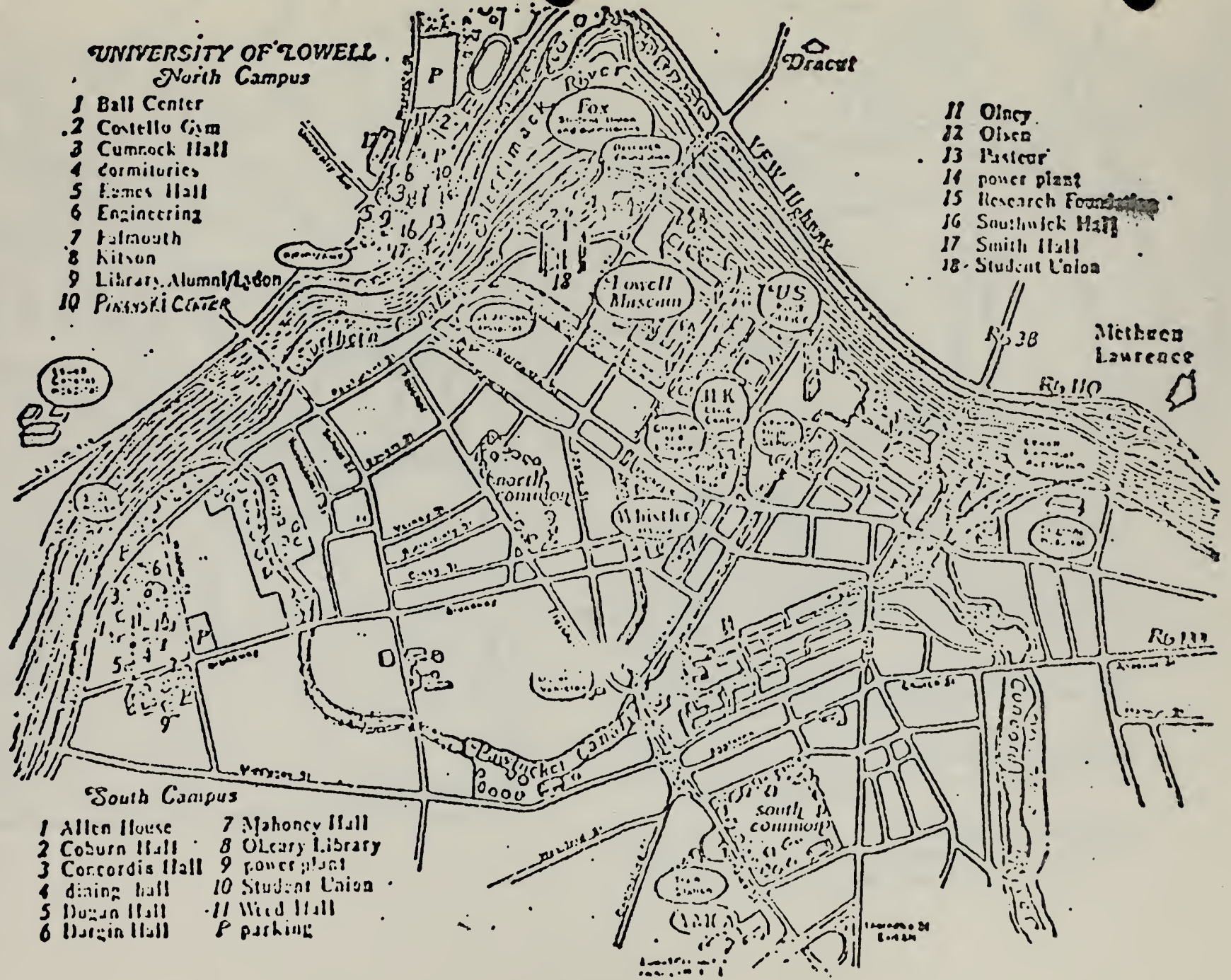
BS7C** BIOLOGY/BIOLOGICAL SCIENCES
BT7C BIO.SC.-BIO TECHNOLOGY OPTION
CB7C CHEMISTRY(BA)
CH7C***CHEMISTRY/APPLIED CHEMISTRY
CS7C***COMPUTER SCIENCE
ES7C** ENVIRONMENTAL SCIENCE
EY7C ENV.SCIENCE-GEOLOGY OPTION
IS7A INFORMATION SYSTEMS
MA7C***MATHEMATICS/APPLIED MATH.
MC7B MATH./COMPUTER SCIENCE OPTION
MH7B MATH FOR TEACHERS
MY7C METEOROLOGY
PH7C** PHYSICS
PM7B POLYMER SCIENCE
RS7C** RADIOLOGICAL HEALTH SCIENCES
SM7B STATISTICS &OPERATIONS RESEARCH

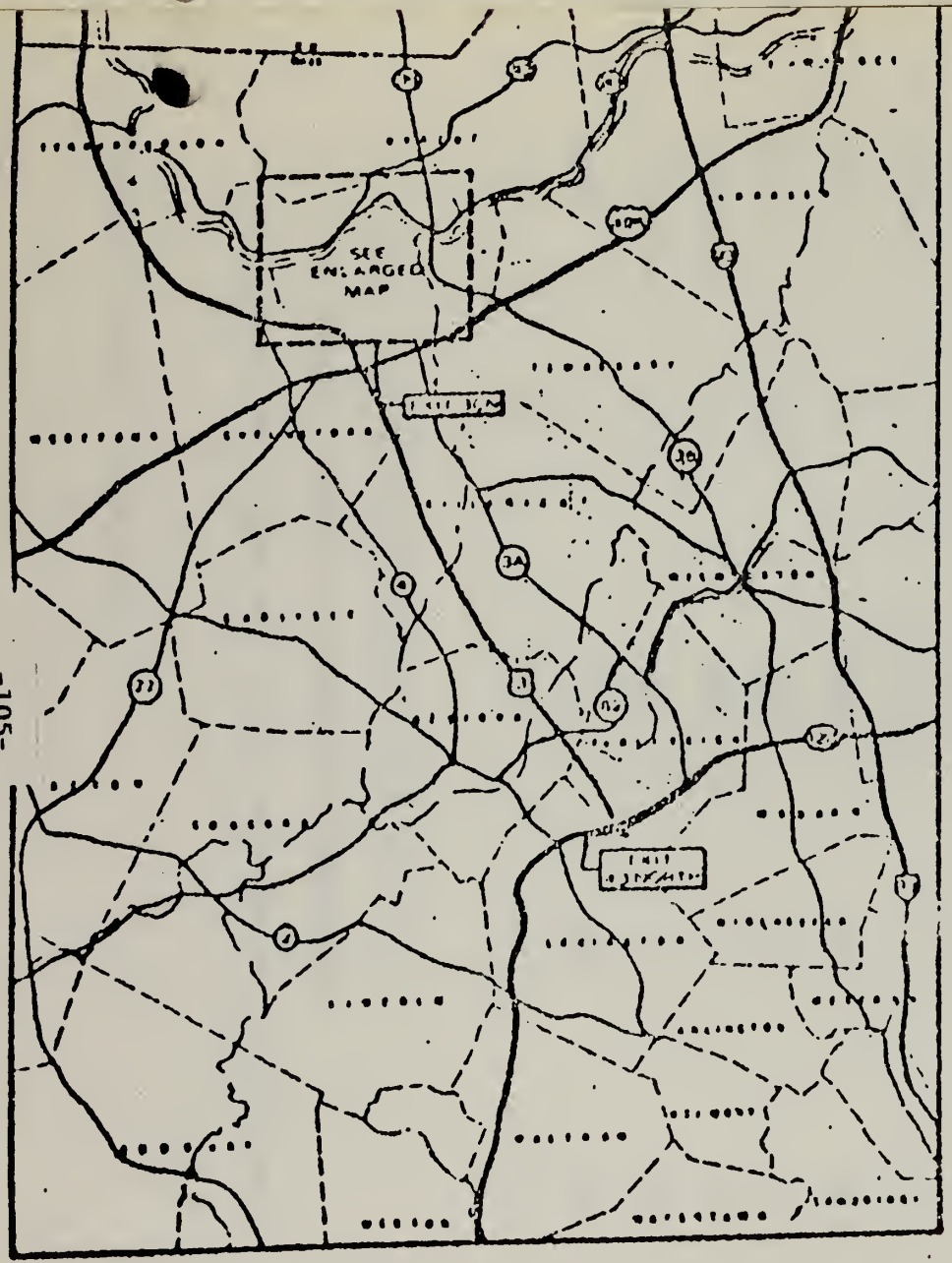
** Also graduate school(A&D)
***Also evening and graduate school(ABDE)

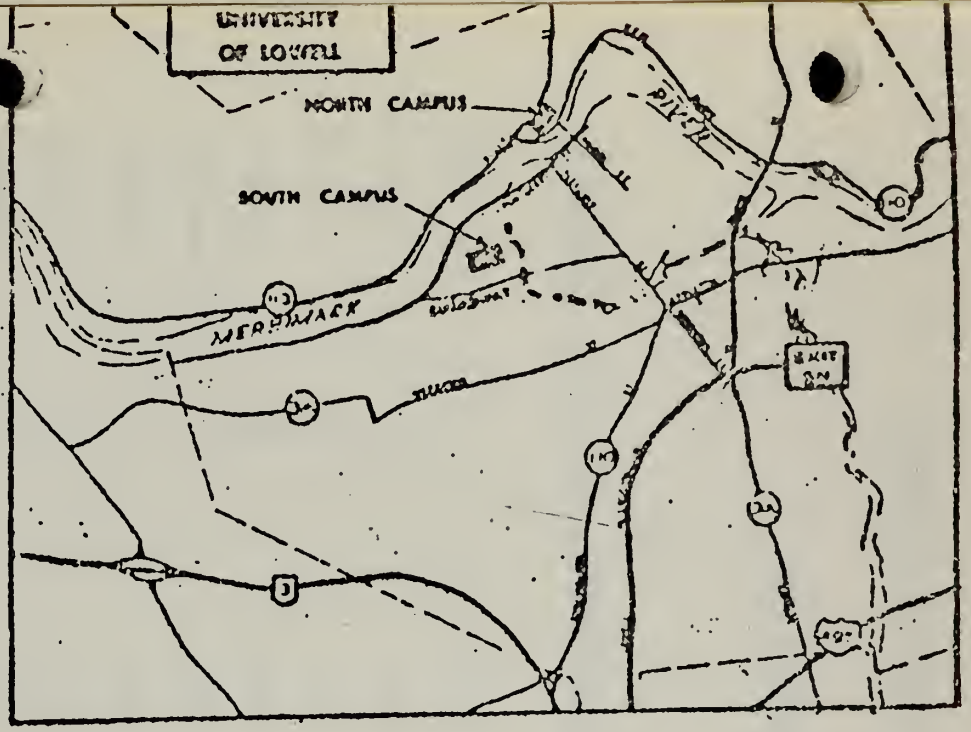
PHYSICAL PLANT

UNIVERSITY OF LOWELL BUILDING SQUARE FOOTAGE TOTALS
(Revised 9/2/85)

BUILDINGS	SQUARE FEET	CONSTRUCTED/PURCHASED
Ball	100,369	1961
Kitson	50,460	1902
Falmouth	46,420	1907
Southwick	66,350	1902
Pasteur	50,392	1938
Engineering	47,715	1950
Olney	217,812	1974
Olsen	125,000	1974
Pinanski	69,625	1968
Cumnock	35,776	1954
Dugan	49,960	1962
Durgin	60,000	1976
Coburn	35,230	1894
Mahoney	41,460	1960
Weed	64,590	1972
Allen House	10,294	1854
Costello Gym	92,623	1967
Alumni Library	19,025	1950
Lydon Library	46,168	1969
O'Leary Library	151,200	1974
Concordia	47,250	1966
Student Union (South)	52,800	1974
Power Plant (South)	5,539	1966
Cafeteria (South)	30,150	1972
Power Plant (North)	8,520	1925
Maintenance (North)	10,000	1966
Tully Forum	37,451	1981
West Campus (7 Buildings)	75,056	1984
STATE OWNED PROPERTY (27 Buildings) Totaling	1,647,235 Sq.Ft.	
Smith	31,635	1948
Eames	30,920	1948
Bourgeois	60,560	1967
Leitch	60,560	1967
Annex # 2,3,4,7	20,000	1965-70
East Meadow Lane Apartments	37,044	1980
Fox	210,000	1973
Infirmary	3,940	1965
Research Foundation	40,346	1963
UNIVERSITY OF LOWELL BUILDING AUTHORITY PROPERTY (13 Buildings) Totaling	495,005 Sq.Ft.	
47 Buildings		
UNIVERSITY TOTAL	2,142,240 Sq.Ft.	


UNIVERSITY OF LOWELL
North Campus
1 Ball Center
2 Costello Gym
3 Cumnock Hall
4 dormitories
5 Eames Hall
6 Engineering
7 Falmouth
8 Kitson
9 Library, Alumni/Lydon
10 Pinanski Center
11 Olney
12 Olsen
13 Pasteur
14 power plant
15 Research Foundation
16 Southwick Hall
17 Smith Hall
18 Student Union
South Campus
1 Allen House
2 Coburn Hall
3 Concordia Hall
4 dining hall
5 Dugan Hall
6 Dargin Hall
7 Mahoney Hall
8 Oleary Library
9 power plant
10 Student Union
11 Weed Hall
P parking
Dracut
Methuen
Lawrence
Fox
Lowell Museum
Whistler
north common
south common
Concord
Pawtucket Canal
Merrimack River
Rt 38
Rt 110
Rt 133





GENERAL LOCATION AND DIRECTIONS TO THE UNIVERSITY

The 100 acre campuses of the University are located in close proximity, on either side of the Merrimack River in Lowell, 28 miles outside of Boston, and near the New Hampshire border.

From Boston, take the Massachusetts Turnpike to Weston, following 128 North until Exit 45 (North). From Route 3 (North) take Exit 30N into the Lowell Connector. From the Lowell Connector, exit on 3N to Thorndike Street and proceed North. Follow Fletcher and Thorndike Streets (Fletcher is a continuation of Thorndike).

For the south campus, where the undergraduate admissions office is, take a left at the Broadway Street intersection. Facilities here include McHugh and Weed Halls, Durgin Building, Allen Hall, Student Union complex, O'Leary Library, Coburn Hall and the Concordia residence.

To reach the north campus, continue straight through the Fletcher and Broadway Street intersection, to Pawtucket Street, crossing the Textile Bridge. Located in this area are Southwick and Cumnock Halls, Eames, Smith, Lelnd and Bourgeois dormitories, Olsen Hall, Olney Science Center, Pinanski, and the Howard/Lydon Library.

The Tully Forum is located on Rte.129 in Sillerica, Massachusetts. Take Exit 29 East off Route 3.

LISTINGS OF CLASSROOMS**, LABS., & OFFICES

(As of September 1986)

BUILDINGS*	# OF ROOMS	SEATING CAPACITY	# OF LABS	# OF OFFICES***
Ball	11	1,110	22	60
Coburn	14	622	0	18
Dugan	8	336	1	34
Durgin	13	1,630	5	26
Engineering	4	160	11	33
Falmouth	6	300	4	26
Kitson	17	750	5	11
Mahoney	10	385	8	19
Pinanski	1	40	2	19
Olney	11	855	64	101
Olsen	21	850	15	42
Pasteur	15	620	1	29
Southwick	10	310	5	18
Weed	5	655	13	36
14	146	8,623	156	472

* These are only the Academic Buildings listed.

** This includes Lecture Halls used for instruction.

*** There are many offices within labs which are not included here.

Source: Office of the Registrar.

DINING FACILITIES

FALL 1986

NAME	LOCATION	CAPACITY
Cafeteria	South Campus	800
Fox Hall	North Campus	500
Smith Hall	North Campus	154

LIBRARIES, COMPUTER CENTER, RESEARCH FOUNDATION, AND SPECIAL ACADEMIC SERVICES

UNIVERSITY LIBRARY SYSTEM

The University Library System consists of the Lydon Library (North Campus), the O'Leary Library (South Campus) and the Learning Resource Center (West Campus). Lydon Library, in addition to housing the collections in the areas of the Sciences, Engineering and Management, is the location for the Government Documents Depository and the Special Collections Department. The O'Leary Library specializes in the subjects of Education, Health Sciences, Music and Liberal Arts. The Learning Resource Center deals with k-12 materials including textbooks, games, juvenile and adolescent literature, audio visual and computer software specifically supporting the College of Education programs.

The University Libraries were one of the first facilities in the region to install an Automated Library System with a Public Online Union Catalog of not only its holdings but those of over 40 hospital libraries in Massachusetts.

A staff of 25 professionals and 19 clericals work to meet the informational needs of the University Community. Some of the services provided include electronic interlibrary loan processing, computerized literature searching, production of graphics, slides and video programs, individual and class instructions on library resources, class reserve readings.

Information is available in a wide range of formats: book, journal, film, video, manuscript, realia, microfilm and fiche, picture, music score and more.

LIBRARY STATISTICS

	'83	'84	'85	'86
CIRCULATION	71,671	71,030	77,708	78,136
MEDIA SERVICES USERS	80,557	78,691	77,333	96,484
INTERLIBRARY LOAN ACTIVITY	3,148	2,298	3,155	5,143

LIBRARY HOLDINGS	ADDITIONS 84-85	TOTAL HOLDINGS JUNE 85	ADDITIONS 85-86	TOTAL HOLDINGS 85-86
MAIN COLLECTIONS				
Monographs	4,788	288,670	9,603	272,234
Music Scores	252	7,806	60	7,823
Sound Periodicals	852	33,985	855	34,840
TOTAL VOLUMES	5,892	330,461	10,518	314,897
SUBSCRIPTIONS	452	2,190	851	3,041
MICROFICHE				
ERIC Pieces	16,156	293,277	16,095	309,372
Government Documents	26,128	168,530	26,032	194,562
TOTAL MICROFICHE	42,281	461,807	42,127	503,934
MICROFILM				
Reels	693	12,641	745	13,386
Titles	137	757	156	825
GOVERNMENT DOCUMENTS VOLUMES	9,482	278,482	9,387	266,919
SPECIAL COLLECTION VOLUMES				
Bound Volumes	150	28,750	100	28,850
Microfilm	110	1,552	311	1,863
Maps & Drawings	454	4,420	599	5,019
Oral Histories	63 hrs.	240 hrs.	130 hrs.	370 hrs.
Photographs	500	22,000	250	22,250
Manuscripts	276 lf.	936 lf.	350 lf.	1,286 lf.
MEDIA				
16mm Motion Picture	3	302	4	306
Video Cassettes	124	489	189	678
Audio Tape	0	1,906	0	1,906
Audio Cassettes	18	208	52	260
Film Strips	14	213	15	228
Phonorecords	320	5,866	300	6,166

LIBRARY EXPENDITURES FOR BOOKS BY COLLEGE

COLLEGE	FY'83	FY'84	FY'85	FY'86
ENGINEERING	$16,113	$12,195	$10,000	$40,000
MANAGEMENT SCI	9,022	4,316	10,000	25,565
PURE/APPLIED SCI	30,208	17,402	20,000	30,250
HEALTH PROFESSIONS	20,483	14,303	11,092	18,415
EDUCATION	7,502	6,624	3,817	20,000
LIBERAL ARTS	23,327	25,229	11,000	67,000
MUSIC	5,308	5,682	3,100	15,900
TOTALS	$111,963	$85,751	$69,009	$217,130

LIBRARIES BUDGET BREAKDOWN

ITEM	FY'83	FY'84	FY'85	FY'86
[illegible]RIES	$616,672	$573,975	$788,209	$982,170
BOOKS - COLLEGES	111,963	85,752	69,009	217,130
BOOKS - GEN/REF	24,826	18,955	18,400	30,646
PERIODICALS	264,151	274,937	345,026	446,472
MICROFORM	13,750	19,194	36,789	19,421
MEDIA	16,539	16,429	10,720	30,000
BINDING	23,107	16,406	13,196	22,902
TOTALS	$1.071.008	$1.005.648	$1.281.349	$1.748.741

The Academic Computer Center provides academic computing services to faculty and students throughout the University. The Center is undergoing a major enhancement of its computer facilities. During the Summer 1986, a cluster of two Digital Equipment Corporation VAX-8650 has been installed. This installation replaces one of the two CDC CYBER-825 computers in operation during 1985-86. The remaining CDC CYBER-825 computer system would provide for an orderly transition of all academic computing from the CDC computers to DEC computers during 1986-87.

The principal hardware and software components of the DEC and CDC computer systems are listed below.

DEC VAX-8650 Computer System

- 2 DEC VAX-8650 CPU's as a VAXCLUSTER, each with 32 MB memory
- 10 RA81 Disk Drives (456 MB each)
- 2 Tape Drives (1600/6250 BPI at 125 ips)
- 1 HSC 70 intelligent controller consisting of 4 disk controllers and 1 tape controller
- 6 DMZ terminal controllers with 24 ports each
- 1 LP27 line printer (900 lpm)
- VMS Operating System
- FORTRAN, BASIC, COBOL, VAX Assembler, LISP, PASCAL
- Data Base Management system (DBMS)
- Application and Mathematical Packages (SPSS/X, IMSL, MINITAB etc.)
- User terminals connected to the system through a telecommunications network.

CDC CYBER -825 Computer System

- 1 CYBER-825 CPU with 1 MB memory
- 6 Disk Units (600 MB each)
- 2 Line Printers (1200 lpm each)
- 2 Magnetic Tape Units (9-track, 800/1600 BPI)
- 1 Card Reader (1200 cpm)
- 1 Card Punch (250 cpm)
- NOS Operating System
- ASSEMBLER, FORTRAN, BASIC, COBOL, APL, PASCAL
- User terminals connected to the system through a telecommunications network

Academic Computing Services

The staff of the Academic Computer Center provides the following services to the University computer user community:

1. Operation of the DEC VAX and CDC CYBER computer systems on a 24 hours/day, 365 days/year basis
2. Support services to the academic user community in the effective utilization of the computers for undergraduate instruction and graduate research.
   These services include the following:
   (a) Seminars and courses for the faculty and students
   (b) Program debugging assistance to students
   (c) Program development assistance to faculty
   (d) Preparation and distrubition of technical newsletters and bulletins
   (e) Preparation of User Guides
3. Participation in the University's goals of community service in the form of providing computer facilities and consultation to educational institutions in the Greater Lowell Area.

Student clusters now exist in the following areas -

Olsen Hall - 6 clusters of 25 each
1 cluster of 15
1 cluster of 12

Pasteur Hall - 1 cluster of 20
- 1 cluster of 8

Engineering Hall - 1 cluster of 25
- 1 cluster of 16
- 2 clusters of 8

Falmouth Hall - 1 cluster of 8

Pinanski Building - 1 cluster of 20
- 1 cluster of 25

Concordia Hall - 1 cluster of 8

Fox Hall - 1 cluster of 8

Leitch Hall - 1 cluster of 2

Bourgeois Hall - 1 cluster of 2

O'Leary Library- 1 cluster of 24

Weed Hall - 1 cluster of 16

Clusters are being expanded and added as an ongoing project. In addition to the clusters, many isolated terminals are available to students.

A limited amount of networking presently exists for the purpose of doing file transfers between machines. Decnet is implemented between 4 minicomputers in Engineering and Computer Science. A link also exists between the CYBER system and two of the Wang computers. Linking all systems for file transfers is a top priority activity being addressed presently.

Wang Systems - There are presently 10 active Wang systems providing a word processing function with over 50 work stations attached. The networking of these systems is being addressed. With this new expansion, all of the colleges at the University have access to Wang WP.

TELECOMMUNICATIONS NETWORK

The telecommunications network spread over the two campuses is continually being expanded. Present state of Telecommunications at the University of Lowell is described in the following:

Computational capability at the University

- 2 - DEC VAX-8650 VAXCLUSTER
- 1 - Control Data Mainframes
- 20 - Minicomputers
- 10 - Wang Computers
- 800 - Terminals
- 100 - Personal Computers

To provide easy access to any of the mainframes or minicomputers from any terminal, a broadband cable configuration is being constructed. The present state of the cable plant which was started over two years ago is as follows:

Total cabling of the following areas:

- Olsen Building
- Pinanski Building
- Ball Hall
- Engineering Building
- Falmouth Hall
- Kitson Hall
- Pasteur Hall
- Cumnock Hall

Extension of this cable plant to the South Campus through lease of a cable from the local cable television company has been completed. The extension terminates at all South Campus buildings, at the Research Foundation, and remote North Campus dormitories. Cabling within these buildings is in progress.

Terminal connections now exist for all engineering, computer science, and math faculty. The task of connecting all faculty to the network is an ongoing project.

SPECIAL ACADEMIC SERVICES

PROGRAM	MALE	FEMALE
A.I.D. PROGRAM	52	28
E.O.P. PROGRAM	54	21
TOTAL --------	106	49

ASIAN	BLACK	HISPANIC	WHITE	OTHER
33	13	13	18	3
28	15	14	16	2
61	28	27	34	5

PROGRAM	ESL	TUTORING	BASIC SKILLS	COUNSELING	ORIENTATION	CULTURAL** ENRICHMENT
A.I.D. PROGRAM	0	0	0	2	15	25
E.O.P. PROGRAM	15	2	44	27	46	11
REGULAR STUDENTS	30	48	0	40	0	0
TOTAL ----------	45	50	44	69	61	36

** NAACP Freedom Fund
Black Heritage Ball

FACTBOOK STATISTICS

FALL 1985 to SPRING 1986

8-18-86

THE RESEARCH FOUNDATION

Established in 1950 by the Board of Trustees, the University of Lowell Research Foundation is a non-profit organization which operates from income derived from research activities funded by Federal and State governments, private foundations and industry. The Research Foundation has responsibility for administration and fiscal management of all faculty research and training grants, contracts and other agreements for the University.

The Foundation is housed in a one-story building, located on the North Campus, near the Fox Student Union Complex. Faculty research encompasses diverse and growing programs ranging from Atmospheric Physics, Biology, Chemistry, Computer Science, Electrical Engineering, Health Physics, Music, Physics, Plastics Engineering, and Tropical Diseases to Economic Development, Environmental Pollution, Management Science and Nuclear Engineering, and includes a wide array of programs in Education, Health Professions and Social Sciences.

The Research Foundation presently maintains two auxiliary enterprises, Metrology Services and Testing Services which perform services on a contract basis for area industry in order to help defray the overhead costs of the facility. Two Research Centers also physically located at the Research Foundation are the Center for Atmospheric Research and the Center for Tropical Diseases, which includes primate quarters and specialized laboratories. Research Associates at the Center for Atmospheric Research Study problems of radio communication created by the uncertainties of the continually changing upper atmosphere; those at the Center for Tropical Diseases study possible drug therapies to combat schistosomiasis which is a parasitic disease affecting up to two hundred million people worldwide. Also located at the Research Foundation is a Submillimeter Radar Modeling Laboratory consisting of sophisticated optical and computer equipment, and a Small Business Development Center. Two additional Centers with specialized staff and research capabilities have recently been established; the Center for Plastics and Composites and the Center for Productivity Enhancement.

Research Foundation Assistance

An important aspect of our activities is to assist the faculty in developing proposals. In recognition of the increasingly competitive nature of the "grantsmanship game," the Research Foundation provides faculty with support throughout the grant process, from the initial concept through the preparation of an acceptable proposal.

Services Provided

Consultations with Development Staff. Whether you come in with a specific research idea or your interests are quite general, we will look for a way to focus on fundable projects. Our staff members keep current on funding opportunities through systematic communication with agency representatives, Washington contacts, and review of journals and program announcements.

Grant Resources Library. Our collection of source books on funding agencies, program guidelines and proposal preparation materials are available for your review.

Newsletter. The "Grant and Contract Announcement" newsletter is distributed to faculty and administrators bi-monthly. It describes agency programs and announces proposal deadlines.

Custom Search. We are a subscriber to the Sponsored Programs Information Network (SPIN). This is a computerized program file of grant and contract information. This program allows us to provide comprehensive lists of information and sources of funding available in each individual's particular field of interest.

Prospectus. We can assist you in preparing a two page summary indicating your objectives and approximate cost. A summary is a key item in locating a prospective sponsor and aids Research Foundation staff to describe your project persuasively.

Personal Contacts. Personal contacts are a key ingredient in proposal success. We may be able to carry your prospectus personally to an agency or make telephone contacts with agency representatives for you. If you have questions of a technical nature, we encourage you to make the contact and welcome you to call at the expense of the Research Foundation.

Research Council. The Research Council is the formal vehicle for the faculty to advise the Research Foundation. It provides funds for faculty at the mature stages of grant preparation for travel to Federal agencies or foundations.

Budget Preparation. Research Foundation staff are available to advise and assist you on proposal budgets.

Proposal Details. Many agencies require certifications, (i.e., human subject research), financial statements, affirmative action compliance affidavits, etc. Research Foundation personnel will ensure that all applicable forms are prepared for your proposal submission.

Proposal Writing/Editing Assistance. We will meet with you in the formative stages of your writing and will provide you with suggested proposal formats. If needed, professional technical editing services can be made available to you. Allowing sufficient lead time will help us and your proposal.

Reproduction. Typing and duplication costs of proposals are borne by the Research Foundation.

University Endorsements. The staff of the Research Foundation will obtain the required institutional signatures on your proposal.

Mailing. The Research Foundation will prepare and mail your proposal with the required number of copies and assure timely arrival by certified or express mail delivery. Courier service is also provided, if necessary.

Special Services. Our staff can facilitate interdisciplinary meetings, check on the status of your submitted proposal, request evaluation of rejected

proposals, and is available to speak to interested faculty groups. We are continually searching for new ways to serve your proposal development needs.

Cost for Services

We do not charge you directly for our services. However, indirect costs (i.e., overhead) are added to your project budget. This reflects the costs incurred by the University (laboratory and library expenses, small percentage of administrator's time, etc.) and costs associated with operating the Research Foundation, i.e., administration costs, including heat, light, space, personnel and equipment. It is important to remember that the Research Foundation receives no state funding for its operation and must pay all salaries and expenses from indirect costs. Overhead costs do not reduce the amount you would receive for your project, however, they are added to your initial cost estimates.

The Board of Trustees of the University of Lowell continues to provide incentives to faculty to encourage research activity. One major incentive is returning a percentage of the indirect cost to the Principal Investigator who may use these funds to travel to present papers or to attend academic conferences, to purchase research supplies, equipment, books and materials, and to conduct other research related activities.

When to Contact the Research Foundation

We encourage you to contact us early if you would like to maximize your access to Research Foundation services. If you are searching for funding, you should allow eight (8) to twelve (12) months lead time. If you have identified a potential sponsor and are mainly concerned with writing and budgeting your proposal, you should call or visit at least three to four (3 to 4) weeks before the due date. Proposals should be in final form a minimum of five (5) working days before the agency deadline. We understand the time constraints imposed by some agency deadlines and are well equipped to provide fast service when needed.

Procedures after Receipt of an Award

The Research Foundation will assist you with all aspects of grant administration. Procedures for hiring and paying personnel, purchase of equipment and supplies, receiving payment for travel and spending overhead funds are detailed in the Research Foundation Grant Procedures Manual, available at the Research Foundation.

Location

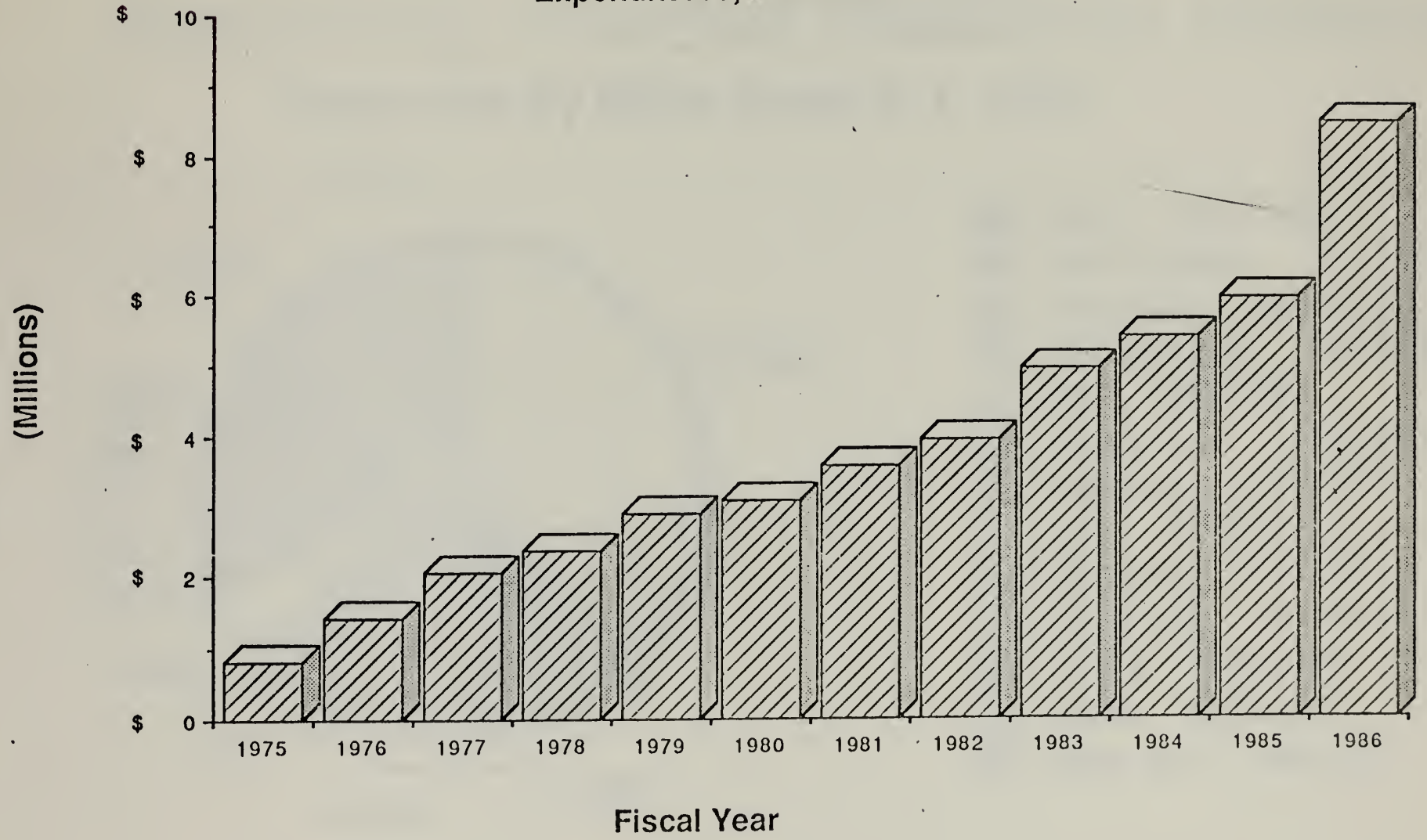
The Research Foundation is located at 450 Aiken Street, across from the Fox Student Union complex. Office hours are 8:30 am to 5:00 pm, Monday - Friday.

Persons to Call for Assistance

The office of the Executive Director can be reached by calling 458-2508 or University extension 2352. A detailed listing of departments and personnel is available in the front section of the University directory.

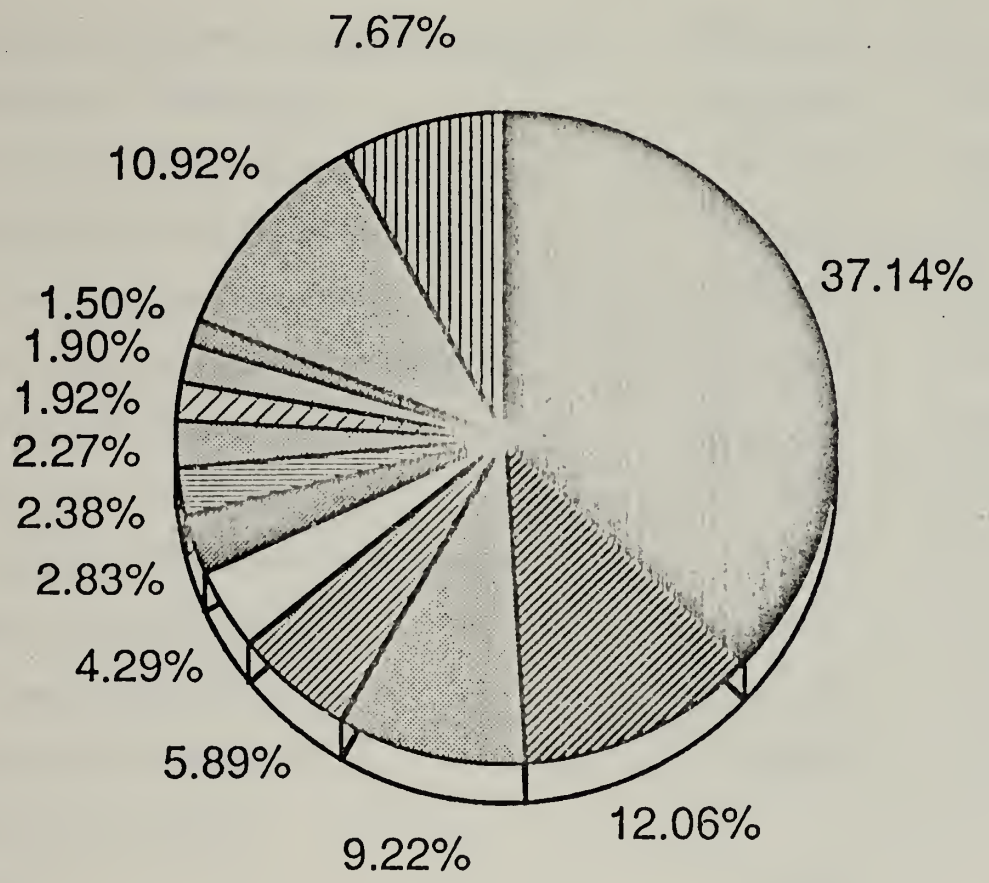
Research Services

Expenditures, Direct and Indirect



Externally Funded Research Dollars

Expended by Major Areas F.Y. 1986



- CAR ($3,138,614)
- Pure & Applied ($1,019,753)
- Engineering ($779,506)
- Radiation Lab ($498,164)
- CTD ($362,578)
- Management ($239,395)
- Metrology ($201,285)
- Misc. ($191,924)
- Education ($162,189)
- Liberal Arts ($160,755)
- Testing ($126,935)
- Health ($923,495)
- Radar Lab ($648,661)

RESEARCH SERVICES

EXTERNALLY FUNDED RESEARCH DOLLARS EXPENDED

	Fiscal Year 1982	Fiscal Year 1983	Fiscal Year 1984	Fiscal Year 1985	Fiscal Year 1986
College of Pure & Applied Science	$996,551	$1,211,540	$1,136,186	$1,363,116	$1,667,756
Radiation Laboratory	184,744	978,773	907,408	602,266	498,164
Center for Atmospheric Research	569,718	589,518	756,608	1,070,722	3,138,614
College of Health Professions	538,178	587,409	643,543	727,939	923,495
College of Engineering	489,303	442,870	602,482	742,775	779,506
Center for Tropical Diseases	233,279	289,320	344,576	429,968	362,578
Special Academic Services	298,234	235,519	179,782	197,288	135,086
Metrology Services	231,190	224,919	216,746	215,639	201,285
College of Management Science	115,951	171,442	287,541	185,020	239,394
Testing Services	106,922	115,841	134,538	144,536	126,935
College of Liberal Arts	89,247	65,231	115,195	86,915	160,755
College of Education	26,098	20,742	5,329	126,230	162,189
College of Music	0	0	10,165	2,900	300
Other	51,097	1,591	60,030	44,393	57,196
TOTAL	$3,930,512	$4,934,715	$5,400,129	$5,939,707	$8,453,253

FUNDED RESEARCH BY DEPARTMENTS
FISCAL YEAR 1986

Department	Research Services	Research Found. Overhead and Fringe Benefits
Metrology	$201,285.12	$110,049.61
Testing	$126,935.05	$79,148.16
College of Engineering		
Plastics	327,091.67 a	47,611.36 b
Mechanical Engineering	169,126.13	29,320.76
Industrial Technology	23,187.64	1,325.23
Electrical Engineering	3,246,587.96 c	635,993.41 d
Civil Engineering	118,237.18	11,229.95
Chemical Engineering	33,889.07	2,937.62
Not Assigned Department		
Total	$3,918,119.65	$728,418.33

(a) Includes $209,892.74 for Center for Plastics & Composites
(b) Includes $35,101.89 for Center for Plastics & Composites
(c) Includes $3,138,613.78 for Center for Atmospheric Research
(d) Includes $613,765.69 from Center for Atmospheric Research

College of Pure & Applied Science		
Computer Science	103,003.09	10,551.30
Physics & Applied Physics	1,165,649.02 e	214,154.34 f
Earth Science	46,567.41	6,043.20
Math	47,614.11	9,804.57
Chemistry	614,896.64	122,575.43
Biological Science	551,425.64 g	112,629.13 h
Total	$2,529,155.91	$475,757.97

(e) Includes $498,164.09 for Radiation Laboratory and $648,661.09 for Submillimeter Laboratory
(f) Includes $91,042.79 from Radiation Laboratory and $119,407.59 from Submillimeter Laboratory
(g) Includes $362,578.08 for Center for Tropical Diseases
(h) Includes $83,838.43 from Center for Tropical Diseases

College of Health Professions		
Area Health Education Center	428,110.66	3,275.68
Clinical Laboratory	288,988.17	49,425.65
Nursing	85,096.87	2,160.34
Health	121,299.65	2,962.26
Total	$923,495.35	$57,823.93

College of Management		
Economics	44,436.36	4,465.52
Management	194,958.59	19,754.33
Total	$239,394.95 i	$24,219.85 j

i) Includes $176,731.86 for Small Business Development Center
j) Includes $19,203.42 for Small Business Development Center

College of Liberal Arts		
History & Political Science	11,933.77	55.99
English	467.00	0.00
Philosophy	5,497.60	763.93
Criminal Justice	110,622.99	22,124.59
Psychology	19,792.38	1,190.47
Art	12,441.17	0.00
Total	$160,754.91	$24,134.98
College of Music	$300.00	$0.00
College of Education		
Center for Field Studies	139,320.74	3,978.00
Education	22,867.88	4,708.87
Total	$162,188.62	$8,686.87
Miscellaneous		
Special Academic Services	$135,086.15	$4,935.44
Library	$4,746.94	$259.06
Financial Aid	$33,551.51	$5,335.67
Other	$18,238.93	$4,110.58
Grand Totals	$8,453,253.09	$1,522,880.45

RESEARCH SERVICES PERFORMED DURING FY86

CENTER FOR ATMOSPHERIC RESEARCH

Dr. Robert Gamache, "Calculations of Molecular Absorption Parameters and Updating the AFGL Atmospheric Absorption Line Parameter Compilation," Electronic Systems Division, Hanscom AFB, MA: $128,355

Dr. Robert Gamache, "Updating AFGL Atmospheric Absorption Line Parameters Compilation," HQ Electronic Systems Division, Hanscom AFB, MA: $118,999

Mr. David Kitrosser, "ARTIST for Belgian Digisonde 256," Institute Royal Meteorologique, Brussels, Belgium: $34,875

Dr. Harry Moses, "Research on the Time-Dependent Inverse Source Problem," U.S. Army Research Office: $49,146

Dr. Bodo Reinisch, "Study of Structure and Dynamics of the Arctic Ionosphere," HQ Electronic Systems Division, Hanscom AFB, MA: $1,316,816

Dr. Bodo Reinisch, "Digisonde Installation for Bermuda," Sacramento Air Logistics Center: $202,309

Dr. Bodo Reinisch, "Provide Digisonde 256 System," Space and Upper Atmosphere Research Commission (SUPARCO): $232,312

Dr. Bodo Reinisch, "Service and Consultation for Digisonde Operation," U.S. Army, Ft. Monmouth, NJ: $11,000

Dr. Bodo Reinisch, "Real Time Analysis of Digisonde 256," U.S. Army, Ft. Monmouth, NJ: $84,994

Dr. Bodo Reinisch, "ARTIST for Digisonde 256," La Trobe University: $29,700

Dr. Bodo Reinisch, "Medium and Long Distance HF Propagation Using Digital Sounders," GTE Communications Products Corp.: $135,458

Dr. Bodo Reinisch, "Provide Digisonde 256 System CRIRP," China Electronics Import and Export Corp.: $134,000

Dr. Bodo Reinisch/Dr. Klaus Bibl/Dr. David Kitrosser, "Worldwide Digital Ionospheric Sounder Network," Sacramento Air Logistics Center: $3,513,345

CENTER FOR TROPICAL DISEASES

Dr. John Bruce, "Selection of Drug Resistant S. mansoni with Schistosomicides in Mice," The Edna McConnell Clark Foundation: $249,000

Dr. John Bruce, "Supply Contract for Schistosoma mansoni SEA and Lyophilized Adult Worms," World Health Organization: $61,500

Dr. John Bruce, "Technical Training Program for Cultivation of Intermediate Hosts of Schistosomiasis," World Health Organization: $4,000

Dr. John Bruce, "Therapeutic Application of Proenzymes against Cancer in Mice," Proenzyme: $14,683

Dr. John Bruce, "Occurrence of Drug Resistance in Schistosomes in Kenya," University of Massachusetts: $7,507

Dr. John Bruce, "Serio-Epidemiological Studies on Schistosomiasis Using an Advanced Technique," Cairo University: $7,200

Dr. John Bruce, "Digenetic Trematode Flukes: Their Cloning, Development and Chronobiology," National Science Foundation: $12,765

Dr. John Bruce, "Occurrence of Drug Resistant Schistosomes in Brazil," National Institute of Allergy & Infectious Diseases: $116,527

Dr. John Bruce, "Efficacy of Bacterial Species on Preditors of Snails," Worne Biotechnology, Inc.: $368

Dr. John Bruce/Dr. Yung-san Liang, "Supply of Schistosoma mekongi eggs," Institute of Parasitology/MacDonald College of McGill University: $300

Dr. John Bruce/Dr. Yung-san Liang, "Maintenance and Supply of Schistosome Infected Snails and Mammals," National Institute of Allergy and Infectious Diseases: $1,027,216

Dr. John Bruce/Dr. Yung-san Liang, "UA-Taiwan Joint Seminar on Application of Biotechnology to Basic Research in Zoonotic Parasitology," National Science Foundation: $11,875

Dr. John Bruce/Dr. Yung-san Liang, "Testing Compounds for Efficacy Against Schistosomiasis," U.S. Army Medical Research Acquisition Activity, MD: $449,995

Dr. Yung-san Liang, "Supply of Lyophilized Schistosoma mansoni worms," Texas Southern University: $249

Dr. Yung-san Liang, "Supply of Lyophilized Adult Worms (LAW) and Soluble Egg Antigen (SEA)," World Health Organization: $10,000

Dr. Yung-san Liang, "Supply of Schistosome Material," Uniformed Services University of Health Sciences: $595

Dr. Yung-san Liang, "Supply of Schistosoma japonicum Adult Worms," Ward's Natural Science Establishment, Inc.: $980

Dr. Yung-san Liang, "Supply of Schistosoma japonicum in Copula," Environmental Resource Association, Inc.: $2,100

COLLEGE OF ENGINEERING

Dr. Gilbert Brown, "Improved Training Material for Introductory Course on Agency Safeguards," International Atomic Energy Agency: $32,750

Dr. Alfred Donatelli, "Heat and Mass Transfer in Transition Boundary Layer Flow Around Cylindrical Fabric Surfaces," U.S. Army R&D Center, Natick, MA: $6,175

Dr. Craig Douglas, "Composite Applications to Large Caliber Weapon Systems and Thermal and Heat Transfer Problem with Composite Applications," U.S. Army Materials and Research Center: $36,398

Dr. John Duffy, "Effect of Passive Solar Buildings on New England's Electric Systems' Load Profile," New England Power Service Company: $9,500

Dr. John Duffy, "Joint AEPP Monitoring," New England Power Service Company: $6,921

Dr. John Duffy, "Alternative Energy Property Program Monitoring," Executive Office of Energy Resources: $11,540

Dr. Max Etschmaier, "Dynamic Maintenance Methodology for Transit," Dynatrend, Inc.: $39,060

Dr. Nathan Gartner, "Computer Technology for Improved Traffic Operations," Commonwealth of Massachusetts Office of Transportation: $131,313

Dr. F. Ross Holstrom, "Electromagnetic Interference (EMI) on the Red Line of the Massachusetts Bay Transportation Authority (MBTA)," Booz-Allen & Hamilton, Inc.: $6,370

Dr. Paul Kales, "Reliability and Maintainability Evaluation," Raytheon Company: $6,786

Dr. Alexander Khazan, "Research for a Solid State Transducer," Gull, Inc.: $30,000

Dr. John McElman, "Stress and Stability Analysis of Thin Shells and the Application of the Finite Element Method as Applied to the Design of Composite Structures," U.S. Army Materials & Mechanics Research Center: $55,764

Dr. Charles Ott/Dr. Burton Segal, "Landfill Leachate Reactor Studies," HDR Techserv, Inc.: $45,827

Dr. Charles Ott/Dr. Donald Pottle, "Investigation of Coliform Source in Industrial Waste Effluent," New England Apple Products Co., Inc.: $1,000

Dr. Robert Parkin, "Development of Pin Sensing Software," Zimex Inc.: $4,000

Dr. James Phelps, "University of Lowell Reactor Fuel Assistance," U.S. Department of Energy: Reactor fuel use charges

Dr. James Phelps, "One Fellowship for the 1985-86 Academic Year," Institute of Nuclear Power Operations: $9,000

Dr. Donald Pottle, "Advanced Industrial Wastewater Treatment Operation Training Program - Physical Chemical Treatment," Bay State Skills Corporation: $56,000

Dr. Donald Pottle/Dr. Charles Ott, "Potable Water Treatment Methodologies at Remote Cold Weather Locations," Department of the Army - Cold Regions Research: $9,295

Dr. Donald Pottle/Dr. Charles Ott, "Summer Institute on Industrial Wastewater Treatment," Bay State Skills Corporation: $20,000

Dr. James Rome, "Kalman Filter Design Study," U.S. DOT/Transportation Systems Center: $2,009

Dr. James Rome, "Collision Risk Model Evaluation," U.S. DOT/Transportation Systems Center: $9,820

Dr. James Rome, "Navigation and Surveillance Systems and Technologies," U.S. DOT/Transportation Systems Center: $80,000

Dr. Steven Serabian, "Ultrasonic Flaw Diagnostics," Exxon Education Foundation: $10,000

Dr. G. Dudley Shepard/Mr. Stephen Christensen, "Dynamic Modelling of Mirror Reference and Rate Table," The Charles Stark Draper Laboratory, Inc.: $4,572

Dr. Robert Tuholski/Dr. H. Jack Apfelbaum/Dr. Ronald Pickett, "Summer Institute on Computer Integrated Manufacturing," Bay State Skills Corporation: $15,994

Dr. Robert Tuholski/Dr. H. Jack Apfelbaum/Dr. Ronald Pickett, "Computer Integrated Manufacturing," Bay State Skills Corporation: $54,630

Dr. John Walkinshaw, "Heat Transportation through Composite Materials and the Computer Interfacing of Automatic Control and Data Acquisition Equipment," U.S. Army Materials and Mechanics Research Center: $35,458

Dr. John White, "Generalized Perturbation Theory Applications in LWR Physics Analyses," Westinghouse Electric Corporation: $125,619

Dr. John White, "Physics Analysis of the High Temperature Gas-Cooled Reactor (HTGR)," Martin Marietta: $62,522

Dr. Woon Shing Yeung, "Investigation of the RELAP 5 Code," Yankee Atomic Electric Company: $55,194

Dr. Yakov Zilberberg, "Evaluation of Heat Recovery from Naval Shipboard Air Conditioning Systems," Martin Marietta Energy Systems, Inc.: $14,926

COLLEGE OF PURE AND APPLIED SCIENCE

Dr. Alexandre Blumstein, "Synthesis and Study of Some Diacetylenic Compounds," GTE Corporation: $12,103

Dr. Alexandre Blumstein/Dr. Rita Blumstein, "Flexible Thermotropic Mesophase Polymers and Model Compounds," National Science Foundation: $270,400

Dr. Alexandre Blumstein/Dr. Rita Blumstein, "Flexible Thermotropic Liquid Crystalline Polymers (Materials Research)," National Science Foundation: $103,100

Dr. Rita Blumstein, "Thermal Investigation of Mylon 6," Davidson Rubber Company, Inc.: $800

Dr. Rita Blumstein, "Determination of Glass Transition Temperatures in Epoxy Structural Adhesives," Raytheon Corporation: $10,000

Dr. Rita Blumstein, "Ordered Polymers for Ballistic Protection," U.S. Army - Natick R & D Center: $4,480

Dr. Rita Blumstein/Dr. Stuart Clough, "Polymers for Ballistic Protection," U.S. Army Natick R & D Center: $9,890

Ms. Joanne Cluette-Brown, "Oral Nicotine, Sex Hormones and Heart Disease," Sigma XI: $300

Dr. Frank Colby, "Synoptic - Scale Analysis Research," Southeastern Center for Electrical Engineering Education: $12,000

Dr. Thomas Costello, "Provide System Support for the Development, Implementation and Maintenance of ASAS Prototype System," Department of Transportation: $89,983

Dr. Thomas Costello/Dr. Lawrence Maloney, "Software Development on the ADA Language," Data General Corporation: $66,600

Dr. Kathleen Doyle, "Ethanol Induced Impairments in Cell Membrane Lipid Efflux," Sigma Xi: $250

Dr. G. Nelson Eby, "Acquisition of Gamma-Ray Spectroscopy Equipment for Research in the Earth and Environmental Sciences," National Science Foundation: $20,000

Dr. Georges Grinstein, "Graphic Kernal System Implementation," University of Lowell Research Foundation: $48,200

Dr. Georges Grinstein, "Development of Functional Specifications for Graphics Processor," Sky Computers, Inc.: $5,000

Dr. Georges Grinstein, "Development of Flexible Image Processing Software Package," Datacube: $14,400

Dr. Jesse Heines, "Computer-Based Training Courseware Tools Development," Scientific Systems, Inc.: $19,952

Dr. Jerome Hojnacki, "Effect of Ethanol on Sex Hormones and HDL Metabolism," National Institute on Alcohol Abuse and Alcoholism: $269,794

Dr. Jerome Hojnacki, "Influences of Alcohol on Primate HDL Composition," The Johns Hopkins University/Alcoholic Beverage Medical Research Foundation: $197,599

Dr. Stanley Israel, "Preparation and Characterization of Polymeric Materials," Optimers Company: $77,180

Dr. Stanley Israel, "Studies of the Thermal Degradation of Phenolic Polymers," Brown & Nixon, Professional Association: $2,700

Dr. Robert Lechner, "Harmonic Analysis of Logic Functions 1," National Science Foundation: 82,966

Dr. Robert D. Lynch, "Permeability of the Lung to Water Soluble Solutes," Massachusetts General Hospital: $14,703

Dr. Giampiero Pecelli/Dr. Lawrence Maloney, "Summer Institute on Artificial Intelligence and Export Systems Technology," Bay State Skills Corporation: $18,000

Dr. Nicholas Rencricca, "The Effect of Select Drugs on the Proliferation and Differentiation of Medullar and Splenic Committed Erythroid Stem Cells," Pfizer, Inc.: $6,985

Dr. Nicholas Rencricca/Dr. Robert Coleman/Dr. Thaddeus Osmolski, "Chemical Preventation of Hyperbaric Oxygen Toxicity," The Eleanor Naylor Dana Charitable Trust: $50,000

Dr. Joseph Salamone, "Main-Chain Polyaminimides," Polaroid Corporation: $15,000

Dr. Joseph Salamone, "Novel Ion-Pair Comonomers," American Chemical Society/The Petroleum Research Fund: $35,000

Dr. Stephen Moses, "Merrimack Valley Health Education Center," University of Massachusetts Medical Center: $133,029

Dr. Stephen Moses/Dr. May Futrell, "Utilization of the Gerontological Nurse Practitioner in the Long-term Chronic Care Setting," University of Massachusetts: $54,448

Dr. Robert Nicolosi, "Apoprotein Study," Frito-Lay Company: $66,958

Dr. Robert Nicolosi, "Evaluation of New Iron Chelators," The Children's Hospital: $83,071

Dr. Robert Nicolosi, "Dietary Effect on Low Density Lipoprotein Heterogeneity," National Institute of Health/National Heart, Lung and Blood Institute: $156,162

Dr. Robert Nicolosi, "Dietary Control of High Density Lipoproteins," National Institute of Health/National Heart, Lung and Blood Institute: $103,346

Dr. Robert Nicolosi, "Lipoprotein Levels in Cynomogus Monkeys," Institute of Shortening and Edible Oils, Inc.: $12,250

CENTER FOR PLASTICS AND COMPOSITES

Dr. Everett Arnold, "Will Work on Government Support Research in Designing Prototype Processing Equipment and Process Control Device," U.S. Army Materials and Mechanics Research Center: $96,890

Dr. S. J. Chen, "Evaluation of Inorganic Filled Plastics," Brunswick Corporation: $400

Dr. S. J. Chen, "Evaluation of Gear Pump Assisted Extrusion Process," Nichols Zenith Division: $22,567

Dr. S. J. Chen, "Mixing of Polyester and Polypropylane Resins with Pigments," American Cyanimid Company: $75,475

Dr. S. J. Chen, "Optimization of Gear Pumps for Polymer Processing," W.H. Nichols Company: $20,000

Dr. S. J. Chen, "Convert Art of Size Reduction of Science of Size Reduction," Nelmore Company Inc.: $23,000

Dr. S. J. Chen, "Debottlenecking Potential Afforded by Gear Pump Assisted Extrusion," Amoco Chemicals Corporation/Amoco Research Center: $9,100

Dr. S. J. Chen, "Properties of P.V.C. Sheets," Hoffman and Feige, Inc.: $500

Dr. S. J. Chen, "Scale-up Evaluation of Compounding Copolymers with Additives," Eli Lilly and Co.: $5,400

Dr. Stephen Driscoll, "Continued Evaluation of Processability and Performance of Structural Foam Resins, " General Electric Company: $75,000

Dr. Stephen Driscoll, "Evaluation of Foam Concentrates for the Stuctural Foam Industry," Nortec: $21,748

Dr. Stephen Driscoll, "Development of Potimum EVA Impact Modifiers," Exxon Chemical Company: $20,000

Dr. Stephen Driscoll, "Evaluation of Plasticizer Structure on Plasticizer Solvency," Exxon Chemical Company: $20,300

Dr. Stephen Driscoll, "Evaluation of Electrical Connectors," Digital Equipment Corporation: $2,000

Dr. Stephen Driscoll/Dr. Stephen Orroth, "Technical Support/Product-Process Development," Digital Equipment Corporation: $15,000

Dr. Steven Grossman, "Blends of Recycled PET with PETG," Developing Technologies: $6,000

Dr. Steven Grossman, "Thermal Diffusivity of CM-X Fluoropolymer," Allied Corporation: $5,000

Dr. Steven Grossman, "Factors Effective Electrical Properties in PVC Resins," ECC America, Inc.: $1,600

Dr. Steven Grossman, "Melt Flow Index Studies of PFA-Resin," GTE Products: $2,300

Dr. Steven Grossman, "Thermal Studies of ABS Materials," Admiral Home Appliance: $400

Dr. Steven Grossman, "Studies of New Clay Fillers in Nylon 6.6," Anglo-American Clays Corporation: $19,250

Dr. Steven Grossman, "Studies to Improve the Moisture Resistance of Nylon - 6.6 Cable Ties," Dennison Manufacturing: $11,705

Dr. Steven Grossman, "Synthesis of Polyamides from Aromatic Dilisocyanates and Dicarboxylic Acids," The Petroleum Research Foundation: $15,000

Dr. Steven Grossman, "Material Testing of Angioflex Resin," Abiomed: $4,000

Dr. Steven Grossman, "Rheology Evaluation of Polystyrene," Polysar, Inc.: $500

Dr. Steven Grossman, "Rheology Evaluation of Polyester Resins," Teka Products, Inc.: $1,000

Dr. Joseph Salamone, "Novel Solution and Solid State Properties of Ampholytic Ionomers from Ion-Pair Comonomers," Office of Naval Research: $317,730

Dr. Joseph Salamone, "Novel Hydrophilic Monomers," Polymer Technology Corporation: $62,619

Dr. Joseph Salamone, "Modification of Nail Polish Formulations," DEL Laboratories Inc.: $100,000

Dr. Joseph Salamone, "Ampholytic Ionomers from Ion-Pair Comonomers," American Chemical Society (PRF): $44,500

Dr. Joseph Salamone/Dr. Arthur Watterson, "Syntheses and Solid State Properties of Ampholytic," National Science Foundation: $206,600

Dr. Joseph Salamone/Dr. Arthur Watterson, "Water Soluble Polymers for Enhanced Oil Recovery," Sun Tech Inc.: $65,305

Dr. Joseph Salamone/Dr. Samuel Sawan/ Dr. Stanley Israel, "Investigate Derivatives of Pilocarpine and Isopilocarpine," Ophthalmological Foundation of America, Inc.: $12,000

Dr. Samuel Sawan, "Synthesis and Characterization of Polysilane Photopolymers," Digital Equipment Corporation: $40,490

Dr. Samuel Sawan, "Photochemistry in Oxirane Polymerifications," IBM Corporation: $75,000

Dr. Samuel Sawan, "Investigation of Urethane Prepolymers," Upaco Adhesives, Inc.: $24,703

Dr. Samuel Sawan, "Novel Ultraviolet Absorbing Polymers," Optical Radiation Corporation: $33,800

Dr. Kunnat Sebastian, "A New Approach to the Problem of the Interaction of a Composite System with the Quantized Radiation Field or with an External Electromagnetic Field," National Science Foundation: $42,891

Dr. Keith Seitter, "The Specification of Lateral Boundary Conditions in Three-Dimensional Mesoscale Numerical Models," USAF, HQ, ESD, Hanscom AFB: $45,674

Dr. Keith Seitter, "Geostrophic adjustment in a Three-Dimensional Mesoscale Numerical Model of the Atmosphere," Southeastern Center for Electrical Engineering Education: $12,000

Dr. Stanley Spiegel, "Computer Algorithms for Determination of Space Vehicle Potentials in Plasma Environments," AFOSR: $93,460

Dr. Jerry Waldman, "Submillimeter Modeling Assistance Program," Department of the Army: $1,832,500

Dr. Arthur C. Watterson, "NMR Studies of Polybutyrals and Other Selected Materials," Ceramics Process Systems Corporation: $2,000

Dr. Arthur C. Watterson, "Characterization of Model Epoxy System for Electronics Applications," IBM Corporation: $101,062

COLLEGE OF MANAGEMENT SCIENCE

Dr. Daniel Diamond, "Manage and Operate a Regional Small Business Development Center," University of Massachusetts: $165,420

Dr. Charles Hurst, "Minority Engineering and Management Outreach: Affirmative Mentoring in Action," Bay State Skills Corporation: $63,910

Dr. Charles Hurst, "Supplemental Funds to Initiate, Improve or Expand a Program of Cooperative Education," Department of Education, Division of Higher Education Incentive Programs: $3,239

Dr. Riaz Khan, "Management Counselling and Technical Assistance to Small Business Concerns," Small Business Administration: $16,000

Dr. Carol McDonough, "Consumer Attitudinal Survey for the Northern Middlesex Area," Union National Bank: $15,114

Dr. Rudolph Winston, "Manage and Operate a Regional Small Business Development Center," University of Massachusetts: $189,962

COLLEGE OF HEALTH PROFESSIONS

Dr. May Futrell, "Gerontological Nurse Practitioner Program," DHHS, Public Health Service: $1,224,887

Dr. James Hester,"Evaluation of the Effectiveness of a Preferred Provider Organization in Containing Health Care Costs," The Robert Wood Johnson Foundation: $288,213

Dr. Joan Lewis, "Student Nurse Lounge Development Project," Helene Fuld Health Trust: $48,493

Dr. Stephen Moses, "Greater Lowell Area Health Education Center, " University of Massachusetts: $232,060

Dr. Stephen Moses, "Library Cataloger," NE Consortium for Health Information: $4,000

Dr. Stephen Moses, "Merrimack Valley AHEC Program," University of Lowell: $5,000

Dr. Stephen Moses, "UNITAS Collaborative Project," University of Massachusetts: $26,761

Dr. Stephen Moses, "Family Practice Residency," University of Massachusetts: $138,328

Dr. Steven Grossman, "Determination of Polymer Structure of Commercial Materials," A.T. Cross Company: $300

Dr. Steven Grossman, "Evaluation of New Flame Retardants in Polyethylene," American Hoechst Corporation: $500

Dr. Jan-Chan Huang, "DSC Studies of EVA Blends," Adhesive Technologies, Inc.: $300

Dr. Stephen McCarthy, "Research in Epoxy Mastic," AVCO Corporation: $3,725

Dr. Stephen McCarthy, "Provide Technical Direction to Programs Including Recommendations for Approach to Various Problems, Such as Experimental Techniques and Test Methodology," U.S. Army Materials Technology Laboratory: $21,000

Dr. Stephen McCarthy, "Blending Studies with Carbon Black in PVC," Nashua Corporation: $650

Dr. Stephen McCarthy, "Investigation into Physical Properties Variations of HDPE," Koro Corporation: $400

Dr. Stephen McCarthy, "Mechanical Characterization of Teflon-Glass Composite Fabrics," Equipment Development Laboratories: $3,000

Dr. Stephen McCarthy, "Rheological Studies of Nylon," Nylon Corporation of America: $225

Dr. Stephen McCarthy/Dr. Stephen Orroth/Dr. S.J. Chen, "Investigation into Moldflow Computer Simulation Parameters of CTE," Richardson Polymer Corporation: $1,000

Dr. Robert Nunn, "Compounding and Processing of Metal Powder Filled Thermoplastics," Brunswick Technetics: $19,897

Dr. Robert Nunn, "Injection Molding Process Control," HPM Corporation: $18,590

Dr. Robert Nunn, "Injection Molding of Powder Compounds," Olin Corporation: $1,005

Dr. Robert Nunn/Dr. Nick Schott/Dr. Stephen Orroth, "Evaluation of Key Molding Parameters for On-Line Monitoring for Optimum Part Properties," Rubbermaid Commercial Products, Inc.: $20,787

Dr. Stephen Orroth, "Injection Molding Studies of an Engineering Resin," 3M Company: $1,200

Dr. Stephen Orroth, "Feeding Characteristics of PVC Powder," Davidson Rubber Company: $1,200

Dr. Stephen Orroth, "Compounding Characteristics of Nylon Blend," Medi-Tech: $3,000

Dr. Stephen Orroth, "Compression Molding of Glass Filled Polypropylene Panels," Norge Company: $600

Dr. Stephen Orroth, "A Study of the Injection Molding Characteristics of Polyethylenetherephalate Resins," The Proctor and Gamble Co.: $3,000

Dr. Stephen Orroth, "A Study of Insert Design for Injection Molded Bosses," Digital Equipment Corporation: $5,000

Dr. Stephen Orroth, "Flexural Green Properties of Polymer Materials," Digital Equipment Corporation: $10,550

Dr. Stephen Orroth, "Increasing the Cold Impact Strength of Polypropylene with EPDM Rubber," John A. Hudson Associates: $1,000

Dr. Stephen Orroth, "A Study of the Injection Molding Characteristics of Polyethylenetherephalate Resins," The Proctor and Gamble Co.: $1,000

Dr. Stephen Orroth, "A Study of the Crosslinking Behavior of Polyethylene," Scient Associates: $475

Dr. Stephen Orroth, "Post Forming of an Elastomeric Compound," Electroized Chemical Co/3M Co.: $500

Dr. Stephen Orroth, "Evaluation of Chemical Container," Compugraphic Corporation: $600

Dr. Stephen Orroth, "A Study of Computer Keyboards," Apollo Computer Inc.: $1,500

Dr. Stephen Orroth, "Investigation of the Blow Molding Characteristics of Conductive Polyethylene," Allied Corporation: $800

Dr. Stephen Orroth, "The Effect of Aging on the Properties of High Density Polyethylene," Amtrol Inc.: $875

Dr. Stephen Orroth, "Evaluation of Irradiated Polymer Films," Neotech Inc.: $350

Dr. Stephen Orroth, "Prototype Injection Molding," Edward Krause Electrical Contracting Company: $400

Dr. Stephen Orroth/Dr. Steven Grossman, "Effect of Counter Pressure on Structural Foam Molding," Morton Thiokol Inc.: $2,000

Dr. Stephen Petrie, "Environmental and Processing Effects on the Fracture Behavior of Polycarbonate," U.S. Army Materials and Mechanics Research Center: $25,419

Dr. Nick Schott, "Processing Evaluation of Polaroid 1CP-117," Polaroid Corporation: $1,150

Dr. Nick Schott, "Work on Programs Involving Resin Transfer Molding of Large Composite Items," U.S. Army Materials and Mechanics Research Center: $73,868

Dr. Nick Schott/Dr. Stephen Orroth, "Fabrication of an Instrumented Female Foot Mannequin Prototype," Multi-Tech Corporation: $3,127

Dr. Nick Schott/Dr. Stephen Orroth, "Compounding Toner Materials," Nashua Corporation: $1,260

COLLEGE OF LIBERAL ARTS

Dr. Mary Blewett/Ms. Martha Mayo, "Mill Workers of Lowell Project," Lowell National Historical Park: $9,990

Dr. Mary Blewett/Ms. Martha Mayo, "Working People of Lowell Project," Lowell National Historical Park: $12,023

Dr. James Byrne/Dr. Glenn Pierce, "Impact of Intensive Probation Supervision in MA," National Institute of Justice: $179,900

Dr. Liana Cheney, "Conservation of WPA Prints," The Lowell Arts Council: $2,500

Dr. Liana Cheney, "Samuel Howes (1801-1881) Lowellian Folk Painter," Theodore Edson Parker Foundation: $10,000

Dr. Liana Cheney, "Publication of Piero della Francesca's Treatise on Painting (1496)," Olivetti Foundation, Inc.: $2,000

Dr. Liana Cheney, "Lawrence Kupferman: The City, his early works 1939-1950," The Lowell Arts Council: $1,000

Dr. Liana Cheney, "Lowellian Stained Glass Windows," Lowell Historic Preservation Commission: $2,500

Dr. Arthur Miller, "Source Book in Relativity and Field Theory," National Endowment for the Humanities: $30,000

Dr. Richard Siegel/Dr. Ronald Pickett/Dr. Stuart C. Freedman, "Conference on Technology and the Workplace," Bay State Skills Corporation: $16,242

SPECIAL ACADEMIC SERVICES

Mr. William McMillan, "Talent Search Program," Department of Education: $240,409

Mr. William McMillan, "Special Services for Disadvantaged Students," Department of Education: $206,925

Mr. William McMillan, "O.E.T. In-Service Training," City of Lowell: $1,423

Mr. William McMillan, "University of Lowell Summer Youth Academic Program," City of Lowell: $19,216

GENERAL UNIVERSITY

Dr. Leon Beghian, "Storage of Library Records," University of Massachusetts, Medical Center Library: $13,520

Ms. Rosanna Kowalewski, "University of Lowell Collaborative," Massachusetts Board of Library Commissioners: $193,815

Ms. Rosanna Kowalewski, "Library Automation Services," Central Massachusetts Consortium of Health Related Libraries: $1,869

Dr. Robert Wagner, "Lowell Conference on Industrial History," Lowell National Historical Park: $73,191

CENTER FOR FIELD SERVICES AND STUDIES

Dr. Brenda Jochums, "Investigation of Instructional Models for Low Income Adults," Technical Training Foundation: $24,970

Mr. William Lannon, "Bilingual Leadership," City of Lowell: $5,200

Dr. Donald Pierson, "Center for Field Services and Studies," University of Lowell: $23,978

Dr. Donald Pierson, "Evaluation of the School to Work Partnership Program," Office of Employment and Training/City of Lowell: $5,000

Dr. Donald Pierson, "Evaluation of the School to Work Partnership Program," Office of Employment and Training: $1,000

Dr. Donald Pierson, "Personnel Support," University of Lowell: $49,620

Dr. Donald Pierson, "College Preparatory Program," University of Lowell: $56,575

RADIATION LABORATORY

Dr. Edward Alexander, "Fellowship for Peter O'Connell," Institute of Nuclear Power Operations: $9,000

Dr. Edward Alexander, "Fellowship for David Sanborn," Institute of Nuclear Power Operations: $9,000

Dr. Edward Alexander, "Fellowship for Ronald Thurlow," Institute of Nuclear Power Operations: $9,000

Dr. Edward Alexander, "Beta Radiation Dose Evaluations," Niagara Mohawk Power Corporation: $29,575

Dr. Edward Alexander/Dr. Kenneth Skrable/Dr. George Chabot, "Health Physics Instrumentation Training," Rochester Gas and Electric: $13,182

Dr. Leon Beghian, "Clam Depuration of Gamma Irradiation," Department of Energy: $102,390

Dr. Leon Beghian, "Use of DOE Owned COBALT - 60: (Value $1M)

Dr. Leon Beghian/Dr. Gunter Kegel, "Studies in Precision Measurements of Low Energy Neutron Inelastics Scattering Cross-Sections for Thorium and Uranium," Department of Energy: $712,224

Dr. Leon Beghian/Dr. Gunter Kegel/Dr. James J. Egan/Dr. Eric Sheldon, "Neutron Scattering Studies in the Actinide Region," Department of Energy: $100,000

Dr. George Chabot, "Nitrogen-16 Irradiations," P. Plato, Inc.: $2,028

Dr. George Chabot, "N-16 Response of Portable Instruments," Cleveland Electric Illuminating Co.: $794

Dr. George Chabot/Dr. Edward Alexander, "Nitrogen-16 Irradiation," Niagara Mohawk Power Corporation: $14,000

Dr. George Chabot/Dr. Edward Alexander, "Preparation of Beta Sources," Yankee Atomic Electric Co.: $4,563

Dr. George Chabot/Dr. Edward Alexander, "Instrument/Dosimeter Responses to Nitrogen-16," Northwest Nuclear Energy Company: $1,436

Dr. George Chabot/Dr. Edward Alexander, "Evaluation of Energy Dependence of Cadmium Telluride Detector," Boston Edison Company: $1,944

Dr. Gus Couchell/Dr. Walter Schier, "Delayed Neutron Spectra of Fissionable Isotopes," National Science Foundation: $219,225

Dr. Gunter Kegel, "Satellite Proton Detector Calibration," Directorate Base Contracting, Hanscom AFB, MA: $2,800

Dr. Gunter Kegel, "Fast Neutron Irradiation Studies," Hybrid Systems Corp.: $13,000

Dr. Gunter Kegel/Mr. Thomas Wallace, "Reactor Services and/or Van de Graaff Accelerator Services," Charles Stark Draper Laboratory Inc.: $2,364

Mr. Jack Luskin, "Development of Radiological Refresher Courses," Federal Emergency Management Agency: $147,495

Mr. Jack Luskin, "Revision of Radiological Course Documents and Materials," Federal Emergency Management Agency: $175,033

Dr. Kenneth Skrable/Dr. Edward Alexander, "Development of a Computer Based Records and Data Management System," Allied Corporation: $89,570

Mr. Thomas Wallace, "Radiation Exposure of Electronic Components," Raytheon Company: $12,074

Mr. Thomas Wallace, "Gamma Irradiation of Electronic Components," Hybrid System Corporation: $13,000

Mr. Thomas Wallace, "Irradiation of Electronic Components Using Nuclear Reactor and/or CO-60 Source," Associated Testing Laboratories: $1,420

Mr. Thomas Wallace, "Irradiation of Polymers for Cross-Linking Applications," Dupont NEN Products: $960

Mr. Thomas Wallace, "Irradiation Testing of Semi Conductor Devices," Lockheed Missiles and Space Co.: $4,010

Mr. Thomas Wallace, "Irradiation by CO-60 for Polymer Cross Linking," G.T.E.: $7,600

Mr. Thomas Wallace, "Irradiation of Diodes by CO-60," Alpha Industries, Inc.: $900

Mr. Thomas Wallace, "Neutron and Gamma Testing of Electronic Components," Science Applications International Corp.: $2,360

Mr. Thomas Wallace, "Irradiation of Electronic Components," Intel Corp.: $770

Mr. Thomas Wallace, "Fast Neutron Damage Studies of Various Electronic Components," Itek Measurement Systems: $20,000

Mr. Thomas Wallace, "Study of Irradiation Effect on Laser Rods," Ensign Bickford: $8,833

Mr. Thomas Wallace, "N-16 Irradiation of Germanium Detectors," Canberra Industries: $500

Mr. Thomas Wallace, "Dosimetric Evaluation of Radiation Label System," Allied Corporation: $13,500

Mr. Thomas Wallace, "Gamma Radiation Effects on Electronic Components," Assurance Technology Corporation: $68,974

Mr. Thomas Wallace, "Sterilization of Alza Mini-Pumps," Rhode Island Hospital: $200

Mr. Thomas Wallace, "Irradiation of Enzymes," Gentest Ltd.: $410

Mr. Thomas Wallace, "Irradiation of Electronic Components," Micro Networks: $1,230

COLLEGE OF MUSIC

Dr. Ron Spearman, "Stipend for Cynthia Litchfield," Merrimack Valley Repertory Theater: $1,800

FINANCE

DESCRIPTION OF FEES AND CHARGES

Application Fee:

Revised by Chapter 234, Section 37 of Acts of 1984.

Tuition:

Established by the Board of Regents (includes special students and audit).

Late Registration Fee:

Established by the Board of Trustees and levied against students who fail to register on time or who do not meet their financial obligations on the specified date.

Student Union Fee:

Established by the Board of Trustees for the purpose of supporting the operating costs of the Student Union Building.

Student Activity Fee:

Established by the Board of Trustees for the purpose of financing an extensive and varied range of cultural, and social activities for students. The fee also entitles admission to many campus events and includes a subscription to the campus newspaper, yearbook, accident insurance and mailbox.

Student Athletic Fee:

This fee is for support of varsity athletics, intramural athletics and expenses incurred therein.

Commencement Fee:

Established by the Board of Trustees for the purpose of defraying the costs of graduation exercises.

Dormitory Damage Deposit Fee:

Established by the Board of Trustees and charged to all students who are dormitory residents. If damage occurs, the student is charged for the damage less the deposit paid. Should there be no damage, the deposit will be fully refunded at the end of the academic year.

Pure & Applied Science Capital Equipment Fee:

This fee shall be levied upon all students to help to partially defray the cost of capital equipment for the College of Pure & Applied Science.

Dormitory Fee:

Established by the Board of Trustees as the residence in the dormitory and use of the dormitory facilities as recommended by the University of Lowell Building Authority.

Laboratory Fee:

Established by the Board of Trustees and paid by all students taking laboratory classes in order to help defray the cost of expendable supplies and related expenses. Most science courses and some music, nursing, physical therapy, psychology and studio courses require the payment of this special fee.

Transcript Fee:

Established by the Board of Trustees and charged to students who request more than three (3) transcripts of permanent academic records. The first three (3) transcripts are issued without charge.

Change of course Fee:

Established by the Board of Trustees and levied against students who initiate a course change. This fee is levied in order to minimize excessive number of course changes.

Academic Service Fee:

Established by the Board of Trustees for the purpose of defraying the cost of maintenance and repair of equipment, the cost of expendable supplies and the cost of other items required to deliver academic services to the student body in computer and library facilities.

Orientation Fee:

Established by the Board of Trustees in order to defray some costs, such as meals, counseling, student guides, printed materials and such other activities as deemed necessary for the orientation period.

Registration Fee for Continuing Education:

Established by the Board of Trustees for the purpose of defraying the costs of registration. It also covers all students for accident insurance and provides I.D. cards for students.

Continued Advisement Fee:

This fee will be paid by graduate students who have completed all their degree requirements except for their thesis work or who need to take a semester off from school because of personal or business reasons. These students sign-up for Continued Advisement which will allow the Graduate School to keep the students' records up-to-date and inform the students about all events and dates of importance and continue the graduate advising of the students.

Graduate Registration Fee:

This fee is for the registering of students. The fee will be used to hire secretaries, part-time staff, and buy equipment necessary for handling and improving graduate registration, advising, and applications.

International Student Services Fee: (One Time Charge)

International students need special handling and numerous visas and other immigration forms before and after they arrive on campus. This fee will be used to defray the cost of the staff, equipment, and consultants necessary to handle international student services.

Health Professions Capital Equipment/Clinical Supervision Fee:

This fee is levied against students in the College of Health Professions and is used to defray the cost of capital equipment for Health Professions and the cost of students who are placed in clinical agencies, including supervision by University faculty members and the coordination expenses which are incurred by personnel of cooperating agencies and schools.

Applied Music Fee:

This fee will be levied upon undergraduate students who take applied lessons and will partially defray the costs of individual music lessons and special instruction.

Engineering Equipment Fee Trust Fund:

This fee will be levied upon engineering majors to assist in defraying the cost of engineering equipment.

Recreational Service Fee:

This fee will be levied against all students for the maintenance and development of student athletic fields.

State Student Association of Massachusetts:

This fee requested by the Student government Association at the University of Lowell is for membership dues to the State Student Association of Massachusetts.

Massachusetts PIRG:

As a result of a vote of the undergraduate day school students, this optional fee was placed on the students bill.

SCHEDULE OF TUITION, FEES AND CHARGES

Academic Year 1986-87

UNDERGRADUATE

	Massachusetts Resident	Non-Resident
Application Fee	$ 10.00	$ 25.00
Orientation Fee	50.00	50.00
Deposit Fee	100.00 Freshmen/Transfer	100.00
Tuition	540.00 Semester	1,818.00
Special Student Tuition	45.00/cr.hr.	143.00/cr.hr.
Late Registration Fee	21.00	21.00
Student Union Fee	25.00/Per Semester	25.00/Sem.
Student Activity Fee	45.35/1st Semester	45.35/Sem.
	24.35/2nd Semester	24.35/Sem.
Student Athletic Fee	45.00/1st Semester	45.00/Sem.
	45.00/2nd Semester	45.00/Sem.
Commencement Fee (Seniors Only)	47.00	47.00
Dormitory Damage Deposit Fee	50.00	50.00
Dormitory Charge	1,393.00 Academic Yr.	1,393.00
Laboratory Fee	27.50/Per Lab	27.50/Lab
Transcript Fee	3 Free - $1.00 each additional copy	
Change of Course Fee	5.50 Per Transaction	5.50
Academic Service Fee*	45.50 Semester	45.50/Sem.
Meal Plan "A"(19 Meals/Week)	793.00 Per Semester	793.00
Meal Plan "B"(15 Meals/Week)	737.00 Per Semester	737.00
Meal Plan "C"(14 Meals/Flex)	771.00 Per Semester	771.00
Meal Plan "D"(10 Meals/Flex)	615.00 Per Semester	615.00
Clinical Supervision		
Education and Music Fee	12.50 per course	12.50
Applied Music Fee	164.00 Semester	164.00
Engineering Capital Equipment Fee	54.50 Semester	54.50/Sem.
Pure & Applied Science Equip.	54.50 Semester	54.50/Sem.
Health Professions Equip.	27.50 per Semester	27.50
International Student Fee	27.50 (once)	27.50
New Student Fee	5.00 (once)	5.00
Recreational Service Fee	7.75 Semester	7.75/Sem.
Parking Fine	3.00,5.00,10.00	3.00,5.00,10.
State Student Assoc.of Mass.	Per Year	Yr.
Mass. PIRG	6.00 Per Year	6.00/Yr.

* $3.00 Academic cr.hr/semester. Maximum $36.50/semester

SCHEDULE OF TUITION, FEES AND CHARGES

Academic Year 1986-87

GRADUATE

	Massachusetts Resident	Non-Resident
Application Fee	$ 10.00	$ 25.00
Tuition	630.00/1st	1,866.00
	630.00/2nd	1,866.00
Credit Hour (per semester)	50.00	145.00
Audit Tuition	30.00/cr.hr.	80.00
Late Registration Fee	21.00	21.00
Student Union Fee	25.00/sem.	25.00
Student Activity Fee	25.00/sem.	25.00
Commencement Fee	31.00 Supply own cap&gown	31.00
Dormitory Damage Deposit Fee	50.00	50.00
Dormitory Charge	1,657.00 Calendar Year	1,657.00

East Meadow Lane Apts

Efficiency Apt.

1 bedroom 298.00/mo.

2 bedrooms 348.00/mo.

Laboratory Fee	27.50/Per Lab	27.50/Lab
Transcript Fee	3 Free - $1.00 each additional copy	
Change of Course Fee	5.50	5.50
Academic Service Fee*	45.50	45.50
Continued Advisement Fee	52.00	52.00
Registration Fee	5.50	5.50
International Student Service Fee	27.50 (one time only)	27.50
Clinical Supervision		
Education and Music Fee	12.50	12.50
Engineering Fee	54.50	54.50
Pure & Applied Science Fee	54.50	54.50
Health Professions Fee	27.50	27.50
Student Insurance Fee	12.50	12.50
Recreactional Service Fee	7.75	7.75

* $3.80/Academic cr.hr./semester. Maximum $45.50/semester

SCHEDULE OF TUITION, FEES AND CHARGES

Academic Year 1986-1987

CONTINUING EDUCATION

	Undergraduate		Graduate
Tuition Fee - Fall'86	$ 54.00		$73.00
Tuition Fee - Spring'87	57.00		73.00
Audit Tuition	20.00		40.00
Late Registration Fee	10.50		10.50
Registration Fee	11.00	(I.D. & Insurance)	11.00
Academic Service Fee	4.00	(cr./contact hr./sem.) Maximum $45.50	4.00
Commencement Fee	47.00	(Supply own cap/gown)	31.00
Laboratory Fee	27.50	(per Lab.)	27.50
Transcript Fee	3 Free - Additional copies $1.00 each		
Continued Advisement Fee	N/A		52.00
Clinical Supervision/Educ.& Mu.	12.50	per course	12.50
Engineering Capital Equip. Fee	4.55	(cr./contact hr.) (max. 54.50)	4.55 (max.54.50)
P&A Science Capital Equip. Fee	4.55	(cr./contact hr.) (max. 54.50)	4.55 (max.54.50)
Health Prof.Capital Equip. Fee/ Clinical Supervision Fee	2.30	(cr./contact hr.) (max. 27.50)	2.30 (max.27.50)

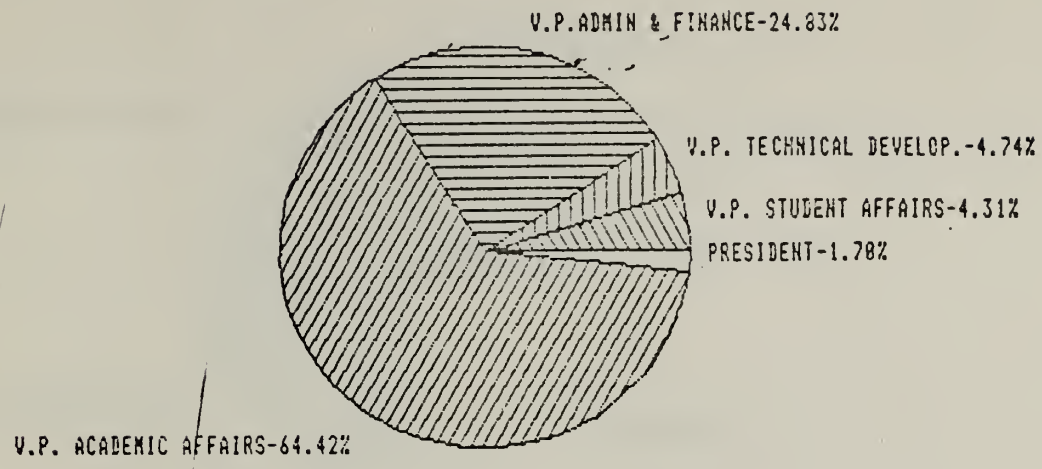
BUDGET EXPENDITURES

1985-86

Sub.	Purpose	
01	Salaries - Permanent Positions	$ 32,098,934
02	Salaries - Other	265,000
03	Services: Non Employees	3,059,174
05	Clothing	12,500
06	Housekeeping, Supplies, Expenses	120,137
07	Lab, Medical Expenses	4,454
08	Heat, Plant Operations	2,736,547
09	Grounds	23,593
10	Travel	127,185
11	Advertising and Printing	299,846
12	Maintenance and Repairs	1,954,310
13	Special Supplies and Expenses	657,075
14	Office and Administrative Cost	831,595
15	Equipment	1,745,672
16	Rentals	96,500
	SUB-TOTAL	$ 44,032,522
	Special U.L. Boarding Hall Maintenance (7220-0002)	69,716
	Special Disadvantaged Student Assistance (7220-9604)	208,514
	Special Scholarships (7220-9704)	211,620
	Special Ed. Reference Library Material (7220-9705)	552,847
	Lawrence Project(7220-0005)	65,000
	SUB-TOTAL	$ 1,107,697
	TOTAL	$ 45,140,219

UNIVERSITY OF LOWELL

1986 MAINTENANCE EXPENDITURES

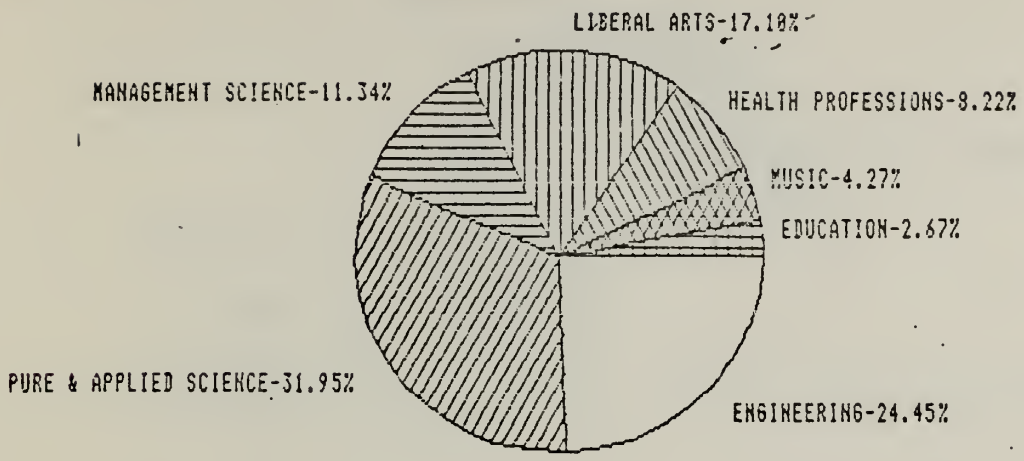


GENERAL COST AREAS

President	$ 748,042
Vice President for Academic Affairs	28,363,843
Vice President for Admin. & Finance	10,931,675
Vice President for Tech. Development	2,088,779
Vice President for Student Affairs	1,900,183
	$ 44,032,522

UNIVERSITY OF LOWELL

1986 MAINTENENCE EXPENDITURES

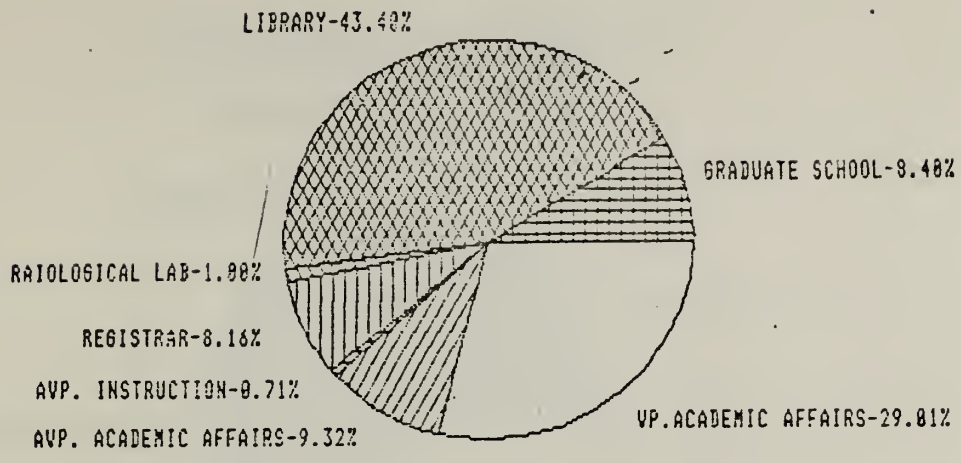


ACADEMIC AFFAIRS

Colleges	
Engineering	$ 6,252,602
Pure & Applied Science	8,171,799
Management Science	2,899,844
Liberal Arts	4,371,950
Health Professions	2,101,524
Music	1,090,786
Education	685,755
	$ 25,574,260

UNIVERSITY OF LOWELL

1986 MAINTENANCE EXPENDITURES

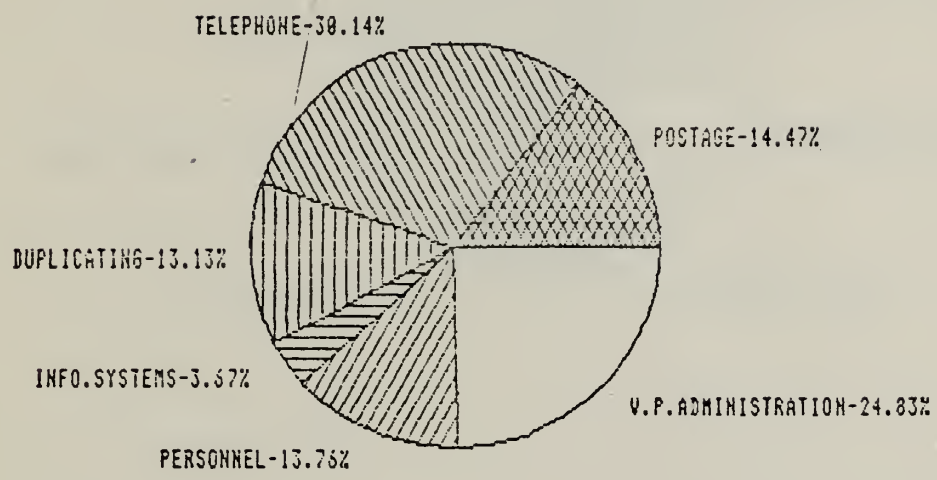


ACADEMIC ADMINISTRATION

Vice President for Acad. Aff.	$ 809,270
Assoc. Vice Pres. for Acad. Aff.	260,044
Assoc. Vice Pres. for Instruction	19,742
Registrar	227,521
Radiological Lab	27,938
Library	1,210,775
Graduate School	234,293
	$ 2,789,583

UNIVERSITY OF LOWELL

1986 MAINTENANCE EXPENDITURES

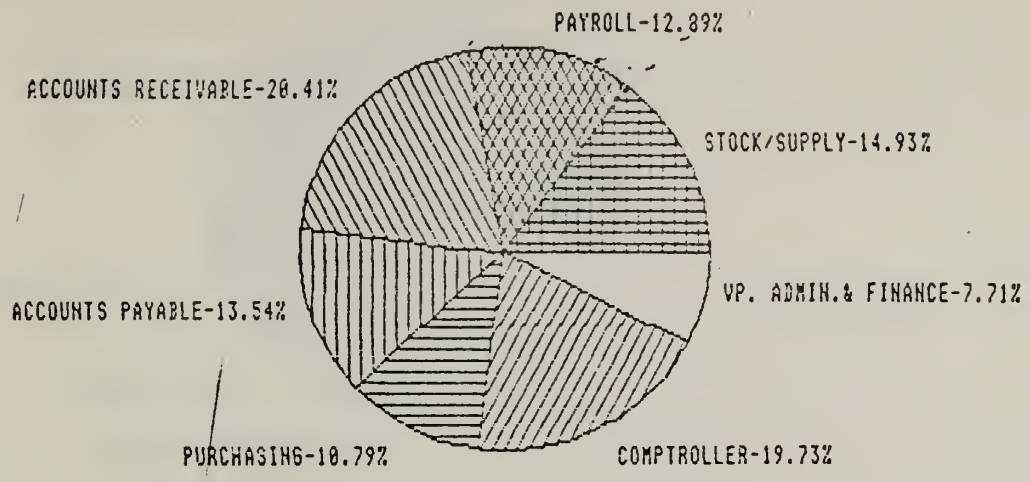


ADMINISTRATION

Vice President	$ 333,505
Personnel	184,803
Information Systems	49,237
Duplicating	176,397
Telephone	404,837
Postage	194,521
	$ 1,343,300

UNIVERSITY OF LOWELL

1986 MAINTENANCE EXPENDITURES

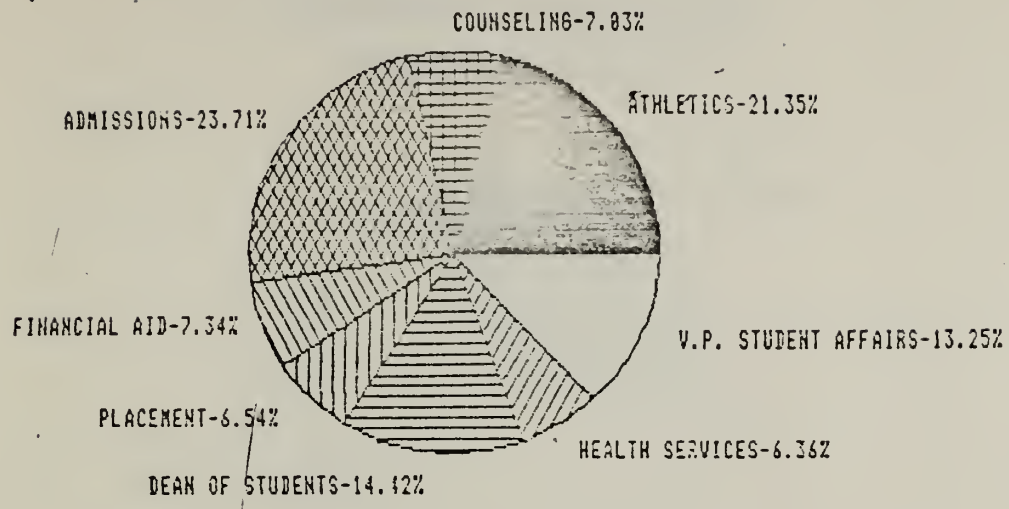


BUSINESS AFFAIRS

Vice President for A & F	$ 85,495
Comptroller/Bud. Control	218,760
Purchasing	119,642
Accounts Payable	150,112
Accounts Receivable	226,321
Payroll	142,901
Stock/Supply	165,411
	$ 1,108,642

UNIVERSITY OF LOWELL

1986 MAINTENANCE EXPENDITURES

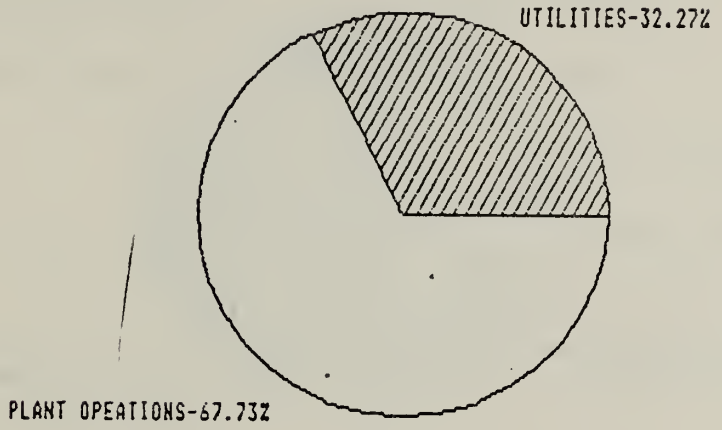


STUDENTS AFFAIRS

Vice President for Stud. Aff.	$ 251,724
Health Services	120,837
Dean of Students	273,924
Placement	124,197
Financial Aid	139,383
Admissions	450,544
Counseling	133,608
Athletics	405,966
	$ 1,900,183

UNIVERSITY OF LOWELL

1986 MAINTENANCE EXPENDITURES

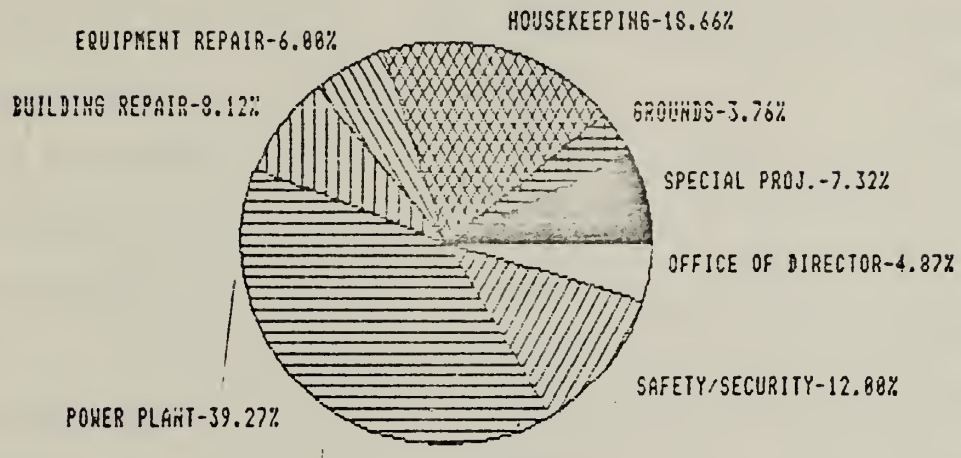


PLANT AND UTILITIES

Plant Operations	$ 5,743,186
Utilities	2,736,547
	$ 8,479,733

UNIVERSITY OF LOWELL

1986 MAINTENANCE EXPENDITURES



PLANT OPERATIONS

Office of Director	$ 412,958
Safety/Security	1,017,175
Power Plant	3,330,108
Building Repair	688,498
Equipment Repair	508,673
Housekeeping	1,582,098
Grounds	318,518
Special Projects	621,705
	$ 8,479,733

TOTAL UNIVERSITY COST/S.C.H.

Degree Program	1983-84	1984-85
Sociology	79.17	89.93
Physical Therapy	120.41	56.86
Clinical Lab Science	126.15	173.65
Health Services Admin/		421.79
Health Education	192.08	319.17
Nursing	182.35	224.56
Physical Education	88.95	91.86
Music (all)	205.88	259.56

*TOTAL UNIVERSITY COST/S.C.H. = IDENTIFIABLE COST/S.C.H. x OVERHEAD

$$\text{OVERHEAD} = \frac{\text{Cost of Academic Affairs}}{\text{Cost of Seven Colleges}} \times \frac{\text{Cost of University}}{\text{Cost of Academic Affairs}}$$

AVERAGE TOTAL UNIVERSITY COST/S.C.H. BY COLLEGE

	1983-84	1984-85
Engineering	176.04	207.77
Science	136.83	173.50
Management Science	87.97	122.21
Liberal Arts	93.02	108.35
Health	137.43	160.60
Music	205.88	259.56

NOTE: The College of Health Professions figures do not include deferal funds for instruction.

COST OF DEGREE PROGRAMS*

= Number of Each Degree Granted

By College and Department

	1983-84		1984-85	
Engineering				
Civil Engineering	18,276	#56	20,209	#53
Chemical Engineering	22,194	24	27,348	51
Electrical Engineering	17,841	142	21,669	142
Insudtrial Technology	17,919	64	20,772	59
Mechanical Engineering	19,243	108	22,739	138
Nuclear Engineering	22,342	12	26,615	11
Plastics Engineering	20,959	51	25,910	54
College Average**	$18,930		$22,830	
Health Professions				
Medical Technology	15,487	#20	20,316	21
Nursing	17,715	83	21,865	78
Physical Therapy	16,329	34	13,846	36
Health Education	18,653	14	27,041	12
Health Services Administration	18,213	11	30,540	8
College Average**	$17,265		$20,644	

	1983-84		1984-85	
Pure And Applied Science				
Biology	17,159	#15	19,774	#11
Chemistry	16,253	11	20,623	11
Earth Science	17,081	7	18,488	7
Meteorology	15,167	5	16,902	9
Math	11,775	42	14,410	30
Physics	17,692	10	21,846	16
Radiological Health Science	16,927	4	22,512	8
Computer Science	21,974	68	27,873	95
College Average**	$17,682		$23,191	
Management Science				
Accounting	11,121	#102	14,582	#79
Economics	11,402	7	14,615	9
Management	11,443	301	14,223	277
Industrial Management	14,760	10	18,429	5
College Average**	$11,455		$14,364	

COST OF DEGREE PROGRAMS*

= NUMBER OF EACH DEGREE GRANTED

BY COLLEGE AND DEPARTMENT

	1983-84		1984-85	
Music				
(All)				
College Average	23,868	#54	29,829	#39
Liberal Arts				
American Studies	11,704	# 2	13,957	# 3
Art	13,020	18	15,251	16
English	11,818	33	12,950	33
Crim. Justice/History/ Political Science	12,538	80	14,763	87
Languages	12,876	6	15,039	11
Philosophy	11,069	0	13,089	1
Psychology	10,769	44	12,892	54
Sociology	11,109	10	13,130	9
College Average**	$11,983		$13,975	
University Average**	$15,695		$19,411	

*Cost of putting a student through each curriculum based on the costs for the year specified.

**Weighted average by number of degrees granted that year in each program.

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IDENTIFIABLE DIRECT COST/S.C.H.*

Degree Program	Cost 1983-84	Cost 1984-85
Sociology	45.50	52.59
Physical Therapy	69.20	32.25
Clinical Lab Science	72.50	101.55
Health Services Admin/		246.66
Health Education	110.39	186.65
Nursing	104.80	131.32
Physical Education	51.12	55.71
Music (all)	118.32	151.79

*Identifiable Direct Cost/S.C.H. = $\frac{\text{Total Dollars 01-16 per dept.}}{\text{S.C.H. Generated by that dept.}}$

AVERAGE IDENTIFIABLE DIRECT COST/S.C.H. BY COLLEGE

	1983-84	1984-85
Engineering	101.17	121.50
Science	78.64	101.46
Management Science	50.56	71.47
Liberal Arts	53.46	63.36
Health	78.98	93.92
Music	118.32	151.79

TOTAL UNIVERSITY COST/S.C.H.

Degree Program	Cost 1983-84	Cost 1984-85
Chemical Engineering	233.68	289.74
Civil Engineering	169.06	172.97
Electrical Engineering	152.30	185.35
Industrial Technology	176.42	193.78
Mechanical Engineering	193.58	223.84
Nuclear Engineering	229.96	290.58
Plastics Engineering	188.46	233.31
Biology	176.77	184.29
Chemistry	151.48	197.94
Computer Science	256.89	334.27
Earth Science	140.35	140.15
Math	87.84	108.41
Physics	173.90	216.50
Accounting	92.90	138.49
Economics	73.41	92.29
Management	99.30	143.08
Art	111.62	126.81
English	104.46	116.19
History/Pol. Sci./Crim.Just.	104.28	122.03
Languages	116.89	133.38
Philosophy	73.13	85.59
Psychology	68.28	84.11

UNIVERSITY OF LOWELL

ACTUAL $ EXPENDITURES BY ACCOUNT AND BY UNIT 84-85

UNIT	01	02	03	01-03	5-9	10	11	12	13	14	15	16	05-16	01-16
Education	506586	0	40053	546639	0	587	153	1099	7943	2067	16192	0	28041	574680
Engineering	4549432	0	511798	5061230	0	5786	4900	28605	32409	9350	399855	108	481013	5542243
Health Professions	1675625	0	110278	1785903	0	8962	335	7008	14579	9544	47227	135	87790	1873693
Liberal Arts	3835894	0	77061	3912955	0	2554	912	1818	8345	1519	32473	2332	49953	3962908
MGT. Science	2231475	0	132551	2364026	0	19094	353	4939	825	5425	29599	970	61205	2425231
Music	885550	145	90021	975716	0	2065	1945	13570	14996	3556	30887	223	67242	1042958
P+A Science	6042968	365	501382	6544715	0	7141	6310	53694	53941	10225	759446	9803	900560	7445275
Grad School	141836	159	8093	150088	0	6543	30397	0	1798	2770	1923	0	43431	193519
SUB TOTAL A	19869366	669	1471237	21341272	0	52732	45305	110733	134836	44456	1317602	13571	1719235	23060507
VP+Assoc Up.	560667	110	51041	611818	0	8492	2096	0	408859	858	34582	0	454887	1066705
ost ssc ASMT + Registrar	229638	0	26411	256049	0	0	0	0	260	0	3187	0	3447	259496
ssoc VP + RAD LAB	0	0	0	0	0	388	0	5751	13129	35	10165	0	29468	29468
eed Res.	0	0	8787	8787	0	5875	50	0	21772	0	20356	0	48053	56840
Library	696986	61	58918	755965	0	2716	2605	10030	37000	9686	36830	0	98867	854832
SUB TOTAL B	1487291	171	145157	1632619	0	17471	4751	15781	481020	10579	105120	0	634722	2267341
SUB TOTAL A+B	21356657	840	1616394	22973891	0	70203	50056	126514	615856	55035	1422722	13571	2353957	25327848
SUB TOTAL C*	6911977	157283	388603	7457863	3224116	60508	133444	1297486	202662	537793	1198716	93800	6748525	14206388
GRAND TOTAL A,B,+ C	28268634	158123	2004997	30431754	3224116	130711	183500	1424000	818518	592828	2621438	107371	9102482	39534236

UNIVERSITY OF LOWELL
Office of Academic Affairs

The following three-step procedure was used to estimate the cost of producing a student credit hour (no distinction was made between undergraduate and a graduate S.C.H.'s) in a given discipline and producing an undergraduate degree in a given major. Graduate degree costs were not estimated.

STEP 1 - Identifiable Direct Cost per Student Credit Hour in a given Year.

The total direct cost that could be readily assessed to one of the thirty academic departments--such as, department faculty and staff salaries, department travel cost, department printing cost, cost of repairing and purchasing department equipment, cost of laboratory and educational supplies used in the department, certain (but not all) department office costs and cost of equipment rented for department use--was computed for a given fiscal year. This computed value was then divided by the total number of student credit hours generated in the fall and spring day semesters of the same fiscal year, by the particular academic department in order to determine the "Identifiable Direct Cost per Student Credit Hour" for that year. It should be noted that this "Direct Cost" does not include some costs (such as department telephone and postage cost) which are usually considered "Direct Cost" because they could not be readily identified at the department level. Likewise, the above computed "Direct Cost" does not include indirect costs such as heat, electricity, cost of janitorial service, cost of physical plant, repairs and administrative costs.

STEP 2 - Total University Cost per Student Credit Hour

In this step the total cost to the University of Producing a S.C.H. was estimated by multiplying all "Identifiable Direct Costs per S.C.H." determined in Step 1 by a factor which represents "Overhead" -- that is all costs above those which were identified as "direct academic department costs" in Step 1. These additional costs include the salaries of all non-academic department personnel, such as those who maintain the physical plant or the computer center or the library or the administrative offices, the cost of all utilities for the physical plant, the cost of supplies and equipment for all areas other than the thirty academic departments for which direct costs were estimated in Step 1. In 1976-77 and in 1977-78 this "overhead" factor was approximately 1.7. Thus, if it cost $100 of "Direct Identifiable" department costs to produce a S.C.H. in a particular department, the total cost (direct and indirect) to the University for producing that particular S.C.H. would be $1.70.

It should be noted that this procedure assigns a constant overhead rate to each of the thirty academic departments regardless of their particular characteristics--that is, regardless whether the department requires extensive laboratory space or only classroom space to generate their student credit hours.

Note that the total University maintenance budget is equal to the product of the total number of S.C.H. generated annd the "Total University Cost per S.C.H." for a given year.

Step 3 - Cost of Degree Program Based on a Given Year S.C.H. Cost

In this step total cost to the University of providing the total S.C.H. needed for a particular degree (between 120 and 137 S.C.H. depending on the discipline) is estimated by adding the cost of the various types of S.C.H.'s required for the particular degree. It should be noted that this "degree cost" is the estimated cost of a hypothetical undergraduate degree of 120 to 137 S.C.H.'s all of which are taken in the year for which the S.C.H. cost was calculated.

IDENTIFIABLE DIRECT COST/S.C.G*

Degree Program	1983-84	1984-85
Chemical Engineering	134.30	169.44
Civil Engineering	97.16	101.15
Electrical Engineering	87.53	108.39
Industrial Technology	101.39	113.32
Mechanical Engineering	111.25	130.90
Nuclear Engineering	132.16	169.93
Plastics Engineering	108.31	136.44
Biology	101.59	107.77
Chemistry	87.06	115.75
Computer Science	147.64	195.48
Earth Science	80.66	81.96
Math	50.48	63.40
Physics	99.94	126.61
Accounting	53.39	80.99
Economics	42.19	53.97
Management	57.07	83.67
Art	64.15	74.16
English	58.31	67.95
Historical/Pol. Sci/Crim. Just.	59.93	71.36
Languages	67.18	78.00
Philosophy	42.08	50.05
Psychology	39.24	49.19

ATHLETICS

INTERCOLLEGIATE ATHLETICS ADMINISTRATION

Director of Athletics .....Dr. James Ciszek (acting)
Associate Director of Athletics .....William J. Riley, Jr.
Coordinator for Women's Athletics .....Denise Legault
Athletics Business Manager .....William Dunn
Intramurals Director .....Robert Bates
Athletic Trainer .....Bob Worden
Assistant Athletic Trainer .....Arthur Poitras
Director of Aquatics and Facility.....Andrew Cornellier
Equipment Mangers .....Frank Polak, Bill Droll, Tom Croteau, John DeFreitas
Sports Information Director .....B.L. Elfring
Athletic Academic Liaison .....Richard Kenney
Department Phone .....(617) 452-5000, Ext. 2370

INTERCOLLEGIATE ATHLETICS COACHING STAFF

Sport	Head Coach	Assistant(s)	Ext.
Baseball	Jim Stone	Ken Connerty	2951
Basketball (M)	Don Doucette	Paul Faison, John Paganetti	2897
Basketball (W)	Kathy O'Neil	tba	2921
Bowling (M & W)	Gary Fuller		2795
Crew	Stu Smith	tba	2370
Cross Country (M)	George Davis		2371
Cross Country (W)	to be announced		2370
Field Hockey	Barbara Gosselin	tba	2935
Football	Dennis Scannell	Dick Bove, Fran Funaro, Vern Laws, Ken Sciacca, George Scannell	2898
Golf	Bob Callary		2371
Gymnastics	Fred Plouff		2370
Hockey	Bill Riley	Don Cahoon, Gary Bishop, Mike Geragosian	2373
Lacrosse	Steve Connolly	Greg Norton	2370
Skiing	Don Ameen		2513
Soccer	Sean McGowan	tba	2520
Softball	Jim DeFazio		2935
Swimming (M)	Dick Kenney	Bob Clark, Ben McCarthy	2462
Tennis (M)	Duke Diaz		2898
Tennis (W)	Scott Davis		2370
Track (M)	George Davis	Mike Granfield	2371
Track (W)	to be anounced		2370
Volleyball	Ann Leonard		2370
Wrestling	Brian Urquhart	Phil Conroy	2370

ATHLETICS

Athletics play an intergal part in any university's day-to-day affairs and the University of Lowell is no exception. Offering twenty-seven varsity sports and a wide range of intramural and recreational activities, there is something for everyone wishing to take part in physical activities.

At the varsity level, the Chiefs have achieved a wide range of success at the regional and national levels. The hockey team won the NCAA Division Two National Championship three times before being elevated to Division One in 1983. The men's cross country team has competed for the NCAA title on four occasions and captured the IC4A college division championship in 1979. And the women's program had its first national team qualifiers in 1986 when the softball team was selected for the NCAA tournament and the women's varsity lightweight eight crew boat won the national college division title.

Numerous individuals have won All-American honors in the 11 seasons since the merger of Lowell Tech and Lowell State in 1975. Athletes in men's cross country, men's and women's track, women's bowling, gymnatics, hockey, lacrosse, and swimming have all reach that pinnacle of success. In addition, Vinnie Fleming (cross country, 1975), Marc Linscheid (track, hammer throw, 1977 & 1980), John Alberghini (gymnastics, parallel bars, 1979), Don Jensen (swimming, 200 meter breaststroke, 1982), and Barry Sutter (gymnastics, rings, 1986) have won individual national championships.

The University of Lowell is a member of the National Collegiate Athletic Association (NCAA), the Eastern College Athletic Conference (ECAC), and the New England Collegiate Conference (NECC). The Chiefs compete at the Division Two level in all sports except hockey (Division One) and football (Division Three). For the men, varsity programs are conducted in baseball, basketball, bowling, crew, cross country, football, golf, gymnastics, hockey, lacrosse, skiing, soccer, swimming, tennis, indoor and outdoor track, and wrestling. For women, there are programs in basketball, bowling, crew, cross country, field hockey, softball, tennis, indoor and outdoor track, and volleyball.

On-campus facilities include three gymnasiums including a 2,100 seat home court for basketball, a 25-yard swimming pool with one and three-meter Duraflex/Durafirm diving equipment, three squash courts, two handball courts, separate gymnastics and wrestling areas, two weight rooms, a Nautilus room for varsity athletes, a baseball diamond, a soccer/lacrosse field, two softball diamonds and seven tennis courts.

Off-campus facilities include the Joe Tully Forum (hockey) in Billerica and the boat house on Pawtucket Blvd. Other various public and private facilities used within Greater Lowell include Cawley Memorial Stadium (football), Alumni and Hadley Fields (baseball), the Brunswick Lanes (bowling), Hickory Hill Country Club (golf) in Methuen, and Wang Field (soccer).

FRESHMAN GUIDE TO ATHLETIC ELIGIBILITY

by Richard A. Kenney, Eligibility Monitor

To all new students who may be interested in participating in one of our twenty-seven varsity sport programs, a hearty welcome. The role of my office is to assist you with eligibility questions, act as a liaison with the academic offices at the University, and to prevent or resolve problems we may encounter. The eligibility office is located in the Costello Gymnasium, top level, at the rear of the small gym. Best hours to reach us are M-F, 10:00 AM to 1:30 PM.

In addition to the various rules, regulations and responsibilities which you encounter as students at this University, there are a variety of rules and procedures involved with being eligible to participate in varsity sports. These rules are instituted by the NCAA, are strictly enforced, very complex, and always being updated. We are here to help you understand them and how they affect you. Here is a general outline of the basics.

First, some quick facts. Most of the coaches have offices at the Costello Gymnasium. There are three NCAA Divisions, each with various rules. Most of our programs are Div. II, ice and field hockey are Division I, football and lacrosse are Div. III. Of the nine categories below, the first five concern eligibility to play your first year, the remaining four concern continuing eligibility.

INITIAL ELIGIBILITY-- AMATEUR STATUS -- You should not have played for or contracted with a professional team, nor should you have been paid or received prizes or material benefits for playing your sport by anyone. See your coach.

TRANSFER STATUS -- If you have EVER attended any other 2- or 4-year school before coming to U-Lowell, inform both your coach and this office with specific dates of attendance and the nature of any athletic involvement. Even if you did not apply to U-Lowell as a transfer, the registrar and Admissions Office should have copies of your transcripts.

RECRUITMENT -- You are personally responsible for reporting recruiting violations. Your coach is responsible for informing you of recruiting rules which are designed to promote fairness among colleges and to protect you from harassment.

FINANCIAL AID -- In Div. I and II programs only, speak to your coach about all financial aid you receive including that for athletic participation. If you play football or lacrosse, you may not receive athletic aid for any other sport. If you receive athletic aid, you must report all outside income you earn during academic semesters.

HIGH SCHOOL ACADEMIC RECORD -- In Div. I only, your ability to play your first year at U-Lowell depends on your high school record. In general, our admission standards are high enough that there should be no problems. Speak to your coach.

CONTINUING ELIGIBILITY -- AMATEUR STATUS -- Discuss NCAA rules regarding summer employment with your coach if your are doing sports related work. Report all contacts by professional scouts, teams and other colleges immediately to your coach, Do not arrange any meetings, give any information or answer questions by the media until cleared through the Sports Information Office. Report to the Athletic Director immediately, any gambling activities or financial offers from any outside group. Report any request for information regarding the health, welfare, mood, or prospects of ANY U-Lowell team by outside groups. Do not sign contracts, leases or agreements with outside businesses until you have discussed them with your coach.

FULL-TIME STATUS -- You MUST CARRY TWELVE (12) ACADEMIC CREDITS THROUGHOUT ALL of any season or semester in which you play sports. Filing for reduced load status does not change this requirement. Physical Education credits do not count toward full-time status. Do not drop any academic course without consulting both your advisor and coach FIRST.

GRADE POINT AVERAGE -- This is a University requirement for athletic eligibility. The standards are listed in the catalog of the University. If you run into trouble, the advisors, Dean's Office staff and the registrar can all guide you.

NORMAL PROGRESS -- A very complex issue. You as an athlete are required to pass an average of 12 credits for every semester in which you are enrolled. These ACADEMIC credits must be applicable to your major (if you are undeclared - any major). Be sure your advisor knows you are an athlete. If you fail, audit or drop a course; replace a grade; reduce load; leave for a semester, year or any part thereof; go on co-op, clinical or practicum; change or declare a major; or in any way alter the 'normal' course of events; discuss these with your advisor, your coach AND this office first.

These guidelines are necessarily oversimplified. Please ask us if you have any questions or problems. Waiting for us to find you may be waiting too long.

1986 UNIVERSITY OF LOWELL FOOTBALL SCHEDULE

Head Coach: Dennis Scannell

Assistants: Dick Bove, Fran Funaro, Vern Laws, Ken Sciacca, George Scannell

Captains: Mark Bedrosian, John Copley, Kevin Fontes, Tom O'Rourke, Vinnie Shepard

September			
Sat. 13		PLYMOUTH STATE	1:30
Sat. 20	at	Norwich	1:30
Sat. 27		RENSSELAER POLYTECH	1:30
October			
Sat. 4	at	Colby	1:30
Sat. 11	at	Western Connecticut	1:00
Sat. 18		BOWDOIN (HOMECOMING)	1:30
Sat. 25	at	Framingham State	1:00
November			
Sat. 1		WORCESTER POLYTECH	1:30
Sat. 8		SPRINGFIELD	1:00

1986-87 UNIVERSITY OF LOWELL MEN'S BASKETBALL SCHEDULE

November			
Sat. 22		BRYANT	7:30
Tue. 25	at	Eastern Nazarene	8:00
Sat. 29		MERRIMACK	7:30
December			
Tue. 2		BENTLEY	7:30
Thu. 4		SPRINGFIELD	7:30
Sat. 6	at	American Int'l (A.I.C.)	7:30
Tue. 9		ST. ANSELM	7:30
Sun. 28	at	Merrimack Tournament	TBA
Mon. 29	at	Merrimack Tournament	TBA
January			
Wed. 7	at	Barry University	7:30
Fri. 9	at	St. Thomas (FLA)	7:30
Wed. 14	at	New Haven *	7:30
Sa 17	at	Bridgeport *	7:30
Mon. 19	at	Stonehill	7:30
Wed. 21		NEW HAMPSHIRE COLLEGE *	7:30
Sat. 24		QUINNIPIAC *	7:30
Mon. 26	at	Sacred Heart *	7:30
Wed. 28		KEENE STATE *	7:30
Sat. 31		BRIDGEPORT *	7:30
February			
Mon. 2	at	Southern Connecticut *	7:30
Wed. 4	at	Keene State *	7:30
Sat. 7		NEW HAVEN *	7:30
Mon. 9		BRANDEIS	7:30
Wed. 11	at	Quinnipiac *	7:30
Sat. 14		SOUTHERN CONNECTICUT *	7:30
Mon. 16		SACRED HEART *	7:30
Wed. 18	at	New Hampshire College *	7:30
Tue. 24		NECC Quarterfinals	TBA
Fr 27		NECC Semi-finals @ Southern Conn.	TBA
Sat. 28		NECC Championship @ Southern Conn.	7:30

1986-87 UNIVERSITY OF LOWELL WOMEN'S BASKETBALL SCHEDULE

November			
Sat. 22		BRYANT	5:30
Mon. 24	at	Stonehill	
Fri. 28	at	St. Michael's Tournament	TBA
Sat. 29	at	St. Michael's Tournament	TBA
December			
Tue. 2		BENTLEY	5:30
Thu. 4		SPRINGFIELD	5:30
Sat. 6	at	American Int'l (A.I.C.)	5:30
Tue. 9		ST. ANSELM	5:30
Thu. 11	at	Central Connecticut	7:30
January			
Thu. 8	at	Merrimack	7:30
Mon. 12		ASSUMPTION	7:00
Wed. 14	at	New Haven *	5:30
Sat. 17	at	Bridgeport *	5:30
Wed. 21		NEW HAMPSHIRE COLLEGE *	5:30
Sat. 24		QUINNIPIAC *	5:30
Mon. 26	at	Sacred Heart *	5:30
Wed. 28		KEENE STATE *	5:30
Sat. 31		BRIDGEPORT *	5:30
February			
Mon. 2	at	Southern Connecticut *	7:00
Sat. 7		NEW HAVEN *	5:30
Wed. 11	at	Quinnipiac *	5:30
Sat. 14		SOUTHERN CONNECTICUT *	5:30
Mon. 16		SACRED HEART *	5:30
Wed. 18	at	New Hampshire College *	5:30
Fri. 20	at	Keene State *	5:30
Mon. 23		NECC Quarterfinals	TBA
Thu. 26		NECC Semi-finals @ Southern Conn.	TBA
Sat. 28		NECC Championship @ Southern Conn.	5:00

1986-87 UNIVERSITY OF LOWELL HOCKEY SCHEDULE

October				
Sun. 19	at	Providence	7:30	
Thu. 23		NEW HAMPSHIRE	7:35	
Sat. 25	at	New Hampshire	7:30	
November				
Sat. 1		MERRIMACK	7:35	
Wed. 5		BOSTON COLLEGE	7:35	
Sat. 8	at	Boston College		
Wed. 12	at	Northeastern	7:30	
Sat. 15		NORTHEASTERN	7:35	
Wed. 19	at	Boston University	7:30	
Sat. 22		BOSTON UNIVERSITY	7:35	
December				
Mon. 1	at	Merrimack	7:30	
Fri. 5		DENVER	7:35	
Sat. 6		WISCONSIN	7:35	
Wed. 10		PROVIDENCE	7:35	
Sat. 13		COLORADO COLLEGE	7:35	
Sun. 28		NORTH DAKOTA	7:35	
January				
Fri. 2	at	Minnesota-Duluth	8:05	CST
Sat. 3	at	Minnesota	7:35	CST
Fri. 9	at	Northern Michigan	7:35	
Sat. 10	at	Michigan Tech	7:35	
Fri. 16		MAINE	7:35	
Sat. 17		MAINE	7:35	
Fri. 23		ST. LAWRENCE	7:35	
Mon. 26	at	Boston College		
Fri. 30		BOSTON COLLEGE	7:35	
February				
Fri. 6	at	Maine	7:30	
Sat. 7	at	Maine	7:30	
Thu. 12	at	Northeastern	7:30	
Sun. 15		NORTHEASTERN	7:35	
Wed. 18		PROVIDENCE	7:35	
Sat. 21	at	Providence	7:30	
Tue. 24	at	New Hampshire	7:30	
Sat. 28		NEW HAMPSHIRE	7:35	
March				
Tue. 3		BOSTON UNIVERSITY	7:35	
Fri. 6	at	Boston University	7:30	
Tue. 10		HOCKEY EAST First Round (single game) or		
Wed. 11		HOCKEY EAST First Round		
Sun. 15	at	HOCKEY EAST Semi-finals (at Boston Garden)		
Mon. 16	at	HOCKEY EAST Championship (at Boston Garden)		
Fri. 20		NCAA Playoffs		
Sat. 21		NCAA Playoffs		
Thu. 26	at	NCAA Semi-finals (at Joe Louis Arena)		
Fri. 27	at	NCAA Semi-finals (at Joe Louis Arena)		
Sun. 28	at	NCAA Championship (at Joe Louis Arena)		

UNIVERISTY OF LOWELL

VARSITY TEAM RECORDS

1975-1986

SPORT	1975-81	1981-82	1982-83	1983-84	1984-85	1985-86	OVERALL	PCT.
BASEBALL	121-60	19- 7	21-10	23- 8	26-10	18-15-1	228-110-1	.674
BASKETBALL (M)	60-89	11-16	10-18	15-12	9-19	12-17	117-171	.406
BASKETBALL (W)	43-60	10-13	7-18	7-21	1-24	1-24	69-160	.301
CROSS COUNTRY (M)	34-15-2	4- 1	3- 0	8- 1	4- 3	1- 2	52- 20-2	.716
CROSS COUNTRY (W)	- - -	club	club	0- 5	2- 5	0- 0	2- 10	.167
FIELD HOCKEY	31-27-17	10- 7-1	12- 6-1	7- 8-2	7- 6-2	9- 3-4	76-57-27	.559
FOOTBALL	2- 6- 1	4- 5	2- 8	4- 5	5- 4	3- 7	20-35- 1	.366
GOLF	52-32	7- 5	3- 4	11- 0	5- 3	9- 2	87- 46	.654
GYMNASTICS	23-30	4- 4	4- 5	5- 3	4- 4	2- 6	42- 52	.447
HOCKEY	122-43- 3	31- 4	29- 2	15-16-3	15-25-2	11-29-2	223-119-10	.648
LACROSSE	18-35	9- 3	11- 1	12- 1	7- 8	9- 6	66- 54	.550
SOCCER	24-61- 6	11- 4-2	9- 6-2	6- 6-5	3-13-1	1-13-1	54-103-17	.359
SOFTBALL	52-38	16- 5	22- 7	18-10	17-16-1	27- 7	152- 83- 1	.646
SWIMMING	40-25- 1	3- 7	5- 4-1	3- 8	3- 6	2- 8	56- 58- 2	.491
TENNIS (M)	37-25- 1	9- 1	6- 6	9- 0	9- 1	9- 2	79- 35- 1	.691
TENNIS (W)	36-30	3- 3-1	7- 3	4- 5-1	8- 4	5- 6	63- 51- 2	.552
TRACK (M), INDOOR	36-17	8- 0	6- 0	8- 1	7- 2	0- 0	65- 20	.764
VOLLEYBALL	47-61	20-13	20-14	28-17	24-14	25-11	164-130	.558
WRESTLING	47-59	14- 3	14- 7	18- 6	2-10	6-10-2	101- 95- 2	.515
TOTAL	824-713-31	193-101-4	191-119-4	201-133-11	158-177-6	150-118-10	1717-1361-66	.557
PCT.	.535	.654	.615	.599	.472	.557	.557	

NOTE: BOWLING (M & W), CREW (M & W), SKIING, TRACK (Women's Indoor; Men's and Women's Outdoor) do not participate in dual match format, but in championship or invitational meets. A won-loss record for these teams is not applicable.

UNIVERSITY OF LOWELL ALL-AMERICANS

1975-76		1976-77	
d Campbell	Track	Joe Brice	Track
[redacted]leming	Cross Country	Vince Fleming	Cross Country
	Track	Bill Haskell	Track
Bill Haskell	Track	Bob Hodge	Cross Country
Bob Hodge	Track	Marc Linscheid	Track
Harry Riley	Track		
Chuck Stahley	Swimming & Diving		

1977-78		1978-79	
Joe Brice	Track	John Alberghini	Gymnastics
Ed Campbell	Track	Joe Brice	Track
Bill Haskell	Track	Tom Jacobs	Hockey
Marc Linscheid	Track	Marc Linscheid	Track
Scott Williams	Gymnastics	Craig MacTavish	Hockey

1979-80		1980-81	
Joe Brice	Track	Bob Belcher	Track
Dean Jenkins	Hockey	Bob Blacker	Swimming & Diving
Don Jensen	Swimming & Diving	Dean Jenkins	Hockey
Bob Lange	Swimming & Diving	Don Jensen	Swimming & Diving
Marc Linscheid	Track	Paul Lohnes	Hockey
Paul Lohnes	Hockey	Joe Vicedomine	Swimming & Diving
Tom Mulligan	Hockey		

1981-82		1982-83	
Don Jensen	Swimming & Diving	Bob Blacker	Swimming & Diving
Ken [redacted]iser	Hockey	Tim Bowes	Gymnastics
Paul [redacted]hnes	Hockey	Mike Carr	Hockey
John MacKenzie	Hockey	Don Jensen	Swimming & Diving
Don Morgan	Gymnastics	Bob Lange	Swimming & Diving
Joe Vicedomine	Swimming & Diving	Joe Vicedomine	Swimming & Diving

1983-84		1984-85	
Dave Dunham	Cross Country	Dave Dunham	Cross Country
	Track		Track
Susan Kenney	Bowling	Gary Errico	Football
Dave Quintal	Cross Country	Tony Gilbert	Track
Scott Rafferty	Track	Susan Kenney	Bowling
Dennis Simonaitis	Track	John Knowles	Gymnastics
Bill Stamp	Track	Barry Sutter	Gymnastics

1985-86	
Vic DeMarines	Track
Joe McMahon	Lacrosse
Brian Moody	Cross Country
Dennis Simonaitis	Track
Barry Sutter	Gymnastics

National Championships won by ULowell Student-Athletes

Vince Fleming	NCAA Division Three Cross Country Championship	1975
Marc Linscheid	NCAA Division Three Track (Hammer Throw)	1977
	NCAA Division Two Track (Hammer Throw)	1980
John [redacted]berghini	NCAA Division Two Gymnastics (Parallel Bars)	1979
Don Jensen	NCAA Division Two Swimming (200m Breaststroke)	1982
Barry Sutter	USGF Division Two-Three Gymnastics (Rings)	1986
Hockey Team	NCAA Division Two Championship	1979, 1981, 1982
Women's Crew	Division Two Championships (Varsity Lightweight Eigth)	1986